

Lamar University

Department of Mathematics

MATH 1314 College Algebra (Noncalculus Track – 3 hours)
Fall, 2017 Syllabus
Lucas 119

Instructor: Gary Brice
Office: Lucas 200-D
Phone: 409-880-8799
Office Hours: MWF (11:15-12:15); Tu/Th (9:00-10:00)
Other times available by appointment.
Text: College Algebra (9th ed.) by Ron Larson (Optional)
Prerequisites: 350 Math TSI, TSI Complete, or TSI Exempt

Catalog Description: Study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations. Prepares for: MATH 1316, 1342, 1350, 3312
Offered: Fall, Spring, Summer. Please Note: This course DOES NOT prepare students to advance to the calculus sequence.

MATH 1314 Learning Outcomes: Upon successful completion of this course, students will:

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.

Core Curriculum Outcomes: Upon completion of this course, the student will demonstrate his or her abilities to think critically, communicate quantitative information, and apply mathematical concepts:

1. Critical Thinking: Develop a logical, consistent plan to solve a problem, recognize consequences of the solution, and articulate a reason for choosing solution method.
2. Communication Skills: Use and present quantitative information in connection with an argument or problem solution and explicate it in an effective format.
3. Empirical and Quantitative: Construct and present a detailed problem statement with evidence of relevant contextual factors and possible approaches for solving the problem, then implement a solution and review the results.

Lectures/Discussions: Please see the attached list of text sections and topics for sections for which homework is required.

Lectures/Discussions/Classwork/Homework Topics:

Exponents and Radicals	Linear Equations in Two Variable
Polynomials and Special Products	Functions
Factoring Polynomials	Analyzing Graphs of Functions
Rational Expressions	Operations on Functions
Rectangular Coordinate System and Graphs	Quadratic Functions and Models
Graphs of Equations	Exponential Functions
Linear Equations in One Variable	Logarithmic Functions
Modeling with Linear Equations	Properties of Logarithms
Quadratic Equations and Applications	Exponential and Logarithmic Equations
Complex Numbers	Linear and Nonlinear Systems of Equations
Other Types of Equations	Two Variable Linear Systems
Linear Inequalities in One Variable	
Other Types of Inequalities	

Grading Policies: Your grade will consist of the average of five major grades: 1) Your Quiz Average, 2) Your WebAssign Average plus, 3) Three Major Test Grades. Each will count 20%. Those three test grades may consist of any of the four tests given during the semester. Should the student take the first three tests and be content with his/her average, the Final Exam will be optional. There will be NO MAKE-UP TESTS given. Thus, if you miss a test (no matter what the reason), that will be the major grade you drop. In that case, you will have to take the Final Exam. Don't plan to miss a test thinking that you will simply take the remaining tests. Your grade will follow the traditional grading scale: A, 90-100; B, 80-89; C, 70-79; D, 60-69; F, below 60.

Attendance Policy: Even though roll will not be taken daily, your regular quizzes will be an excellent indicator of your attendance. For many of you (those on scholarship, those on academic probation, those in special programs, etc.), someone will be contacting me several times during the semester wanting to know about your grades and attendance. I will use your quizzes as an indicator of your regularity in class. YOU WILL WANT TO COME TO CLASS. Much of what is covered on quizzes and tests comes directly from class notes, not the book. Also, quizzes (20% of your course grade) happen only in class. Give yourself the best opportunity to do well in College Algebra – come to class!

Phone Use: Phones should be OFF and PUT AWAY for class times. If a phone is out and visible during class time (whether it is being used or not), the student will be asked to leave but will be free to come back to class the next class meeting. If the same student is asked to leave a second time, they will only be allowed to re-enter the class after a meeting with the head of the department and the instructor. Any quizzes missed because of phone use may not be made up; any notes missed should be obtained from a fellow student. Phone use during a quiz or test will result in a zero on that quiz or test with no opportunity to make up the work. Bottom line: turn your phones OFF and make sure they are PUT AWAY!

Final Exam: For those who have taken all three major tests, the Final Exam is optional. For those who have missed a major test, it is required.

While I have made a sincere effort to ensure that this syllabus is correct, changes may be required. I will announce any substantive changes during a regularly scheduled class. If you find an error or omission, please advise me at once so that the other members of the class may be advised.

Student planning to seek certification to teach grades EC-4 or 4-8: Content standard skills covered in this course are: 1.6, 1.7, 1.13, 1.15, 1.18, 1.19, 1.23, 1.21, 2.2, 2.3, 2.4, 2.5, 2.6, 2.9, 2.10, 2.11, 2.12, 2.13, 2.14, 3.3, 3.5, 3.6, 3.7, 3.14, 5.7, 5.8, 5.9, 5.11, 5.12, 5.14, 5.15, 5.16, 5.17, 5.18

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Important Information for Students

Lamar University expressly prohibits intimidation and harassment of students, faculty, staff, or applicants. <http://students.lamar.edu/academic-support/code-of-conduct.html>

Drop Policy: Please make note of the three dates indicated in this drop policy. Any drop will be your responsibility; I will not drop a student from the course.

September 13, 2017: (Census Date-Six Drop Rule does not apply) A student may drop or withdraw without consulting with the instructor. The Six Drop Rule does not apply to a drop before 5:00 PM.

September 29, 2017: (Six Drop Rule applies) A student may drop or withdraw from the course without academic penalty and receive a Q, however, the Six Drop Rule applies. The student will consult with the instructor and the Records Office to initiate a drop.

November 3, 2017: (Six Drop Rule applies) Last day to drop or withdraw with academic penalty; the student must be passing the course at the time of the requested drop in order to receive a Q. The drop form, including all required signatures, must arrive in the Records Office by no later than 4:00 PM. No drop is allowed after this date except in extreme extenuating circumstances. Any “late drop” must be approved by the instructor, department chair, college dean, and provost.

Academic Integrity: Students are expected to maintain complete honesty and integrity in their academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. Students are specifically warned against all forms of cheating and plagiarism. The *Lamar University Student Handbook* clearly reads: “Any student found guilty of academic dishonesty in any phase of academic work will be subjected to disciplinary action. Punishable offenses include, but are not limited to, cheating on an examination or academic work which is to be submitted, plagiarism, collusion, and the abuse of source materials.” One aspect of the *Handbook’s* definition of cheating includes “purchasing or otherwise acquiring and submitting as one’s own work any research paper or other writing assignment prepared by an individual or firm.” Plagiarism is defined as “the appropriation and the unacknowledged incorporation of another’s work or ideas into one’s own and submitted for credit.” Faculty members in the College of arts and Sciences investigate all cases of suspected plagiarism. Any student who is found cheating in this course will receive a course grade of F. <http://students.lamar.edu/student-handbook.html>

Accommodations through the Disability Resource Center: Lamar University is committed to providing equitable access to learning opportunities for all students. The Disability Resource Center (DRC) is located in the Communications building room 105. Office staff collaborate with students who have disabilities to provide and/or arrange reasonable accommodations. If you have, or think you may have, a disability (e.g., mental health, attentional, learning, chronic health, sensory, or physical), please contact the DRC at [409-880-8347](tel:409-880-8347) or drc@lamar.edu to arrange a confidential appointment with the Director of the DRC to explore possible options regarding equitable access and reasonable accommodations. If you are registered with DRC and have a current letter requesting reasonable accommodations, we encourage you to contact your instructor early in the semester to review how the accommodations will be applied in the course. <http://www.lamar.edu/disability-resource-center/>

Incomplete Grades: The grade of "I" may be given when any requirement of the course, including the final examination, is not completed. Arrangements to complete deficiencies in a course should be made with the instructor prior to the end of the semester or term. Incomplete work must be finished during the next long semester or the Records Office will change the "I" to the grade of "F." While the extension may be granted by the instructor with the approval of his/her Department Chair and Academic Dean, once the "I" is changed to an "F" it cannot be changed back to an "I." In this case, either a "change of grade" procedure must be initiated or the course must then be repeated if credit is desired. The instructor may record the grade of "F" for a student who is absent from the final examinations and is not passing the course.

Campus Closure: In the event of an announced campus closure in excess of four days due to a hurricane or other disaster, students are expected to login to Lamar University's website's homepage for instructions about continuing courses remotely. <http://lamar.edu>

Emergency Procedures: Many types of emergencies can occur on campus; instructions for severe weather or violence/active shooter, fire, or chemical release can be found at: <http://www.lamar.edu/about-lu/administration/risk-management/index.html>

Following are procedures for the first two:

Severe Weather:

- Follow the directions of the instructor or emergency personnel.
- Seek shelter in an interior room or hallway on the lowest floor, putting as many walls as possible between you and the outside.
- If you are in a multi-story building, and you cannot get to the lowest floor, pick a hallway in the center of the building.
- Stay in the center of the room, away from exterior walls, windows, and doors.

Violence/Active Shooter:

- **CALL** - 8-3-1-1 from a campus phone (880-8311 from a cell phone). Note: Calling 9-1-1 from either a campus phone or cell phone will contact Beaumont City Police Dispatch rather than University Police.
- **AVOID**- If possible, self-evacuate to a safe area outside the building. Follow directions of police officers.
- **DENY**- Barricade the door with desks, chairs, bookcases or any other items. Move to a place inside the room where you are not visible. Turn off the lights and remain quiet. Remain there until told by police it is safe.

- **DEFEND-** Use chairs, desks, cell phones or whatever is immediately available to distract and/or defend yourself and others from attack.

Course Evaluations: You will have an opportunity to evaluate all aspects of this course in a formal process to be completed online near the end of the term. You will receive an email reminder through your LU account.