Math 1314: College Algebra
Course Syllabus

This syllabus is current and accurate as of its posting date, but it will not be updated. For the most complete and up-to-date course information, contact the instructor.

Contact Information

Instructor: Dr. Simon Pfeil
Office: MCS 219C
Office Hours: MWF 10:00am-11:00am & 1:00pm – 3:00pm; TR 2:00pm-3:00pm; or by appointment
E-mail: spfeil@angelo.edu
Phone: 325-486-5436

Course Information

Course Description: Exponents and radicals, logarithms, factoring, algebraic quotients, systems of equations, inequalities, absolute value, complex numbers, quadratic equations, binomial theorem, progressions, theory of equations, and determinants.

Textbook: College Algebra, 12th Edition, by Gustafson and Hughes. The electronic supplement WebAssign will also be required.

Webassign: The electronic resource WebAssign will be required. To access WebAssign, click the “Access WebAssign” link in Blackboard.

Course Content: The following chapters including the particular sections listed are covered.

1. A Review of Algebraic Concepts. Real numbers; integer exponents, and scientific notation; rational exponents and radicals; polynomials; factoring polynomials; rational expressions.
2. Equations and Inequalities. Linear equations and rational inequalities; applications of linear equations; complex numbers; quadratic equations; applications of quadratic equations; other types of equations; inequalities; absolute value.
3. Functions and Graphs. Functions and function notation; The rectangular coordinate system and graphing lines; linear functions and slope; writing and graphing equations of lines.
6. Exponential and Logarithmic Functions. Exponential functions and their graphs; logarithmic functions and their graphs; properties of logarithms; exponential and logarithmic equations.

Course Evaluation

Your grade for this course will be determined by your performance on tests, homework, quizzes, and a final exam. Final grades will be based on a standard 10-point grading scale.
Exams (80%): There will be 4 in-class tests during the semester and a comprehensive final exam. Each test will count 14% of your final grade, and the final exam will count 24%. If it helps your final average, and you take each test, then your final exam grade will replace your lowest test grade. If you miss up to one test for any reason, then that test grade will be replaced with the final exam grade. Any other missed tests will result in a grade of zero.

IMPORTANT: Tests in this class will take place from 5-7pm on September 25, October 16, November 6, and November 27.

Homework (15%): Homework will be assigned almost every day using WebAssign and will count 15% of your final grade. See above for how to sign in. No late homework will be accepted. Your lowest two homework grades will be dropped.

Quizzes (5%): Quizzes will be short in-class assignments given throughout the semester and will count 5% of your final grade. Up to one quiz may be made up for any reason, but all other missed quizzes will receive a grade of zero. The lowest quiz grade will be dropped.

Study Aids

The Math Lab offers to all students enrolled in mathematics courses through Calculus an opportunity to obtain free math help. The Math Lab is located on the 3rd floor of the library (C302), and its times are listed below. The Sunday sessions begin on September 10th. Monday – Thursday: 9:00 a.m. - 9:00 p.m. Friday: 9:00 a.m. - 1:00 p.m. Sunday: 4:00 pm - 8:00 p.m.

The Department of Mathematics maintains a list of students who are interested in tutoring privately. Students who are interested in obtaining private tutoring or serving as private tutors should visit the department office for more information.

Feel free to come by my office at any time for help. I will be near my office during my office hours (or there will be a note telling you when I will be back). If my office hours are not convenient for you, meet with me to arrange for another time that is more convenient.

Other Information

Student Absence for Observance of Religious Holy Days:
A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day for more information.

Incomplete Grade Policy:
It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures for more information.

Student Disability Services:
ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA), and subsequent legislation. The Office of Student Affairs is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the student’s responsibility to initiate such a request by contacting:

Ms. Dallas A. Swafford
Director of Student Disability Services
325-942-2047
dallas.swafford@angelo.edu
Houston Harte University Center

Title IX:
Angelo State University is committed to the safety and security of all students. If you or someone you know experience sexual harassment, sexual assault, domestic or dating violence, stalking, or discrimination, you may contact ASU’s Title IX Coordinator:

Michelle Nicole Boone, J.D.
Director of Title IX Compliance
325-486-6357
michelle.boone@angelo.edu
Mayer Administration Building

Academic Integrity
Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU. The College of Science and Engineering adheres to the Statement of Academic Integrity.

Copyright Policy
Students officially enrolled in this course should make only one printed copy of the given articles and/or chapters. You are expressly prohibited from distributing or reproducing any portion of course readings in printed or electronic form without written permission from the copyright holders or publishers.

Plagiarism
Plagiarism is a serious topic covered in ASU’s Academic Integrity policy in the Student Handbook. Plagiarism is the action or practice of taking someone else’s work, idea, etc., and passing it off as one’s own. Plagiarism is literary theft.

In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.
Papers are subject to be evaluated for originality via Turnitin. Resources to help you understand this policy better are available at the ASU Writing Center.

**General Policies Related to This Course**

All students are required to follow the policies and procedures presented in these documents:

- Angelo State University Student Handbook
- Angelo State University Catalog

**Student Learning Outcomes**

The students will demonstrate factual knowledge including the mathematical notation and terminology used in this course. Students will read, interpret, and use the vocabulary, symbolism, and basic definitions used in College Algebra, including the real numbers, exponents, radicals, polynomials, factoring, functions, equations, inequalities.

The students will describe the fundamental principles arising from the mathematical ideas associated to business applications. Students will identify and apply the laws and formulas that result directly from the definitions; for example, the quadratic formula, rules of exponents, and properties of logarithms.

The students will apply the course material along with techniques and procedures covered in this course to solve business related problems. Students will use the facts, formulas, and the techniques learned in this course to simplify algebraic expressions, graph functions, and solve inequalities, equations, and systems of equations.

The students will develop specific skills, competencies, and thought processes sufficient to support further study or work in this field or related fields. Students will acquire a level of proficiency in the fundamental concepts and applications necessary for further study in academic areas requiring College Algebra as a prerequisite, or for work in occupational fields requiring a background in algebra. These fields might include education, business, finance, marketing, computer science, physical sciences, and engineering, as well as mathematics.

**Course Schedule**

Below is a tentative schedule, but it is likely to change throughout the semester.

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<thead>
<tr>
<th>Week</th>
<th>Sections Covered</th>
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<tr>
<td>1</td>
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<td>2</td>
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<td>3</td>
<td>0.4</td>
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<tr>
<td>4</td>
<td>0.5, 0.6</td>
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<tr>
<td>5</td>
<td>1.1, 1.2, and Test 1</td>
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<tr>
<td>6</td>
<td>1.3, 1.4</td>
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<td>7</td>
<td>1.5, 1.6</td>
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<td>8</td>
<td>1.7 and Test 2</td>
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<td>6.6</td>
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<td>16</td>
<td>Final Exam</td>
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