

MATH 1314

College Algebra



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Office Hours: Will be set once course begins to accommodate students' schedules.

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.

Prerequisite and Co-requisite Courses

Completion of Mathematics Texas Success Initiative (TSI) requirements.

Student Learning Outcomes

Upon completion of this course, students will be able to:

- **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, and graphs.
- **Students will describe the fundamental principles including the laws and theorems arising from the concepts covered in this**

course. 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.

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

This is an online course offering that will be delivered via Blackboard.

Required Texts and Materials

College Algebra 12th ed. by Gustafson and Hughes is the required text for this course but a physical copy is not required.

Technology Requirements

To successfully complete this course, students need to purchase access to *College Algebra* 12th ed. by Gustafson and Hughes through Cengage WebAssign. You do not need to purchase Cengage Unlimited. It is only of benefit to you financially if you have another Cengage course this semester. You will also need a reliable internet connection, access to a reliable printer, and access to a reliable scanning device. A webcam will be necessary for you to use Collaborate for office hours.

Communication

Faculty will respond to email and/or telephone messages within 24 hours during working hours Monday through Friday. Weekend messages may not be returned until Monday.

Written communication via email: All private communication will be done exclusively through your ASU email address. Check frequently for announcements and policy changes. In your emails to faculty, include the course name and section number in your subject line.

Virtual communication: Office hours will be done with the assistance of Collaborate.

Grading

Evaluation and Grades

Course grades will be determined as indicated in the table below.

Assessment	Percent of Total Grade
Homework	15
Tests	80
Discussions	5
Total	100%

Grading System

Course grades will be dependent upon completing course requirements and meeting the student learning outcomes.

The following grading scale is in use for this course:

A = 89.5 -100 points

B = 79.5 – 89.5 points

C = 69.5 – 79.5 points

D = 59.5 – 69.5 points

F = 0-59.5 points

Assignment and Activity Descriptions

Homework Policy

- Assignments are to be accessed through Blackboard using WebAssign tool. You will not submit assignments in Blackboard.
- Homework due dates are shown in WebAssign. If you have trouble completing a homework assignment, see me for assistance before it is due. You may use the communication tools in WebAssign to contact me as well as in person and email.
- I will drop 3 homework grades. This is the leeway you are given to allow for unforeseen circumstances.

Quizzes

- Quizzes will be administered in WebAssign. There will be multiple quizzes each week.

Tests

- We will have four regular tests. They will be comprised of a WebAssign portion and a pencil and paper portion.
- The testing dates have been set as follows: July 13, July 21, July 29, and August 5. Times for the tests will be announced using Blackboard Announcements.
- In general, **calculators will not be allowed** on the first two exams. Limited use of a non-graphing calculator will be allowed after the second exam.
- When grading your exam, I am grading your work as well as your answer. You must always show adequate work that leads to your answer. Failure to do so will result in a failing grade. The general rule of thumb is to show as much work on a problem as I show when doing a similar problem in class.

- Each exam question is worth 4 points and will be assessed using the following levels of achievement:

4	3	2	1	0
Student demonstrated complete understanding of the content and made no mistakes.	Student demonstrated understanding of the content but made minor mathematical mistakes.	Student demonstrated some understanding of the content but made major mathematical mistakes.	Student demonstrated very little understanding of the content.	Student did not demonstrate any understanding of the content.

Attendance

- Attendance will be determined by participation in discussion boards and completion of assignments.

Calculators

You will be allowed to use a scientific calculator after the second exam. You do not need to go buy an expensive calculator. If you do not have a calculator, an inexpensive one that will work for this course is a TI 30II S. It runs \$10-\$15. Graphing calculators **will not** be allowed.

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](#)¹
- [Angelo State University Catalog](#)²

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 university's [Statement of Academic Integrity](#).³

Accommodations for Students with Disabilities

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.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student's responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the [Student Disability Services website](#).⁴ The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford
Director of Student Disability Services
Office of Student Affairs
325-942-2047
dallas.swafford@angelo.edu
Houston Harte University Center, Room 112

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](#)⁵ for more information.

Plagiarism

Plagiarism is a serious topic covered in ASU's [Academic Integrity policy](#)⁶ 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. Resources to help you understand this policy better are available at the [ASU Writing Center](#).⁷

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](#)⁸ for more information.

Title IX at Angelo State University

The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance.

Students are encouraged to report any incidents of sexual misconduct directly to ASU's Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator at:

Michelle Boone, J.D.
Director of Title IX Compliance/Title IX Coordinator
Mayer Administration Building, Room 210
325-942-2022
michelle.boone@angelo.edu

You may also file a report online 24/7 at www.angelo.edu/incident-form.

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

For more information about Title IX in general you may visit www.angelo.edu/title-ix.

Course Schedule

The table below indicates the expected schedule of sections that will be discussed on the date listed. However, changes to this schedule may occur and will be posted in Blackboard announcements.

Date	Topic or Module	Activities	Homework
July 6	First Day	Course Orientation	WebAssign Orientation, Read Syllabus, and Introduce yourself in discussion board.
July 7 – 11	Mod 1	Chapter 0.1 – 0.5	WebAssign Homework for lessons 0.1 – 0.5, Quizzes for Mod 1, Test 1 Review
July 12	Test 1	Prepare for Test 1	

July 13	Test 1	Take Test 1	
July 14 – 19	Mod 2	Chapter 0.6 and 1.1 to 1.5	WebAssign Homework for lessons 0.6 – 1.5, Quizzes for Mod 2, Test 2 Review
July 20	Test 2	Prepare for Test 2	
July 21	Test 2	Take Test 2	
July 22 – 27	Mod 3	Chapter 1.6 – 1.8, 2.1 – 2.4	WebAssign Homework for lessons 1.6 – 2.4, Quizzes for Mod 3, Test 3 Review
July 28	Test 3	Prepare for Test 3	
July 29	Test 3	Take Test 3	
July 30 – Aug 4	Mod 4	Chapter 3.1, 4.1, 5.1, 5.3, 5.5, 5.6, and 6.1	WebAssign Homework for lessons 3.1, 4.1, 5.1, 5.3, 5.5, 5.6, and 6.1, Quizzes for Mod 4, Test 4 Review
Aug 5	Test 4	Take Test 4	

¹ <https://www.angelo.edu/student-handbook/>

² <https://www.angelo.edu/catalogs/>

³ <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

⁴ <https://www.angelo.edu/services/disability-services/>

⁵ <https://www.angelo.edu/content/files/14197-op-1011-grading-procedures>

⁶ <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

⁷ https://www.angelo.edu/dept/writing_center/academic_honesty.php

⁸ <https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of>