MATH 1314
College Algebra

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Office Hours:
MWF: 11:30 AM – 12:00 PM, 1:30 PM – 2:00 PM, and 3:00 PM – 4:00 PM
TR: 11:00 AM – 12:00 PM, 2:30 – 3:30
Office hours are in MCS 220 H but may be done virtually if student requests via email. Students may also make appointments using Navigate for other times.

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.

Prerequisite Skills

Accessing Internet websites and proficiency with a scientific calculator are expectations of this course..

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 a face-to-face course with online components that students are expected to access in Blackboard.[1]

Required Texts and Materials

Textbook: College Algebra from OpenStax. This is a free textbook available online at OpenStax Textbook[2]. A print version is available for purchase via the campus bookstore if you would prefer a hard copy. This course also utilizes an online homework through MyOpenMath[3] which will be accessed through the Blackboard course.

Technology Requirements

To successfully complete this course, student needs to have regular and reliable access to a computer, webcam, and printer. Please note that tablets and phones will not always support the online tools utilized in this course. A reliable internet connection is also required. Further, student will need to have access to a scanner or a scanner application for turning in pencil/paper assignments. A scientific calculator will be allowed on some assessments, a graphing calculator will not be allowed on any assessments. If you are planning to use campus owned technology, get a copy of the hours of operation for the various locations and set your study schedule accordingly. For technology assistance, contact the IT Service Center, which is located in MCS 111. Their phone number is (325) 942-2911 or check out their web page at Tech Support[4] .

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, which is included in Blackboard.

Grading

Evaluation and Grades

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

Assessment	Percent of Total Grade
Assignments and homework	10
Check-in	5
Assessments	70
Final Exam	15
Total	100%

Grading System

Course grades will depend on completing course requirements and meeting the student learning outcomes.

This course uses the following grading scale:

A = 89.5 -100 points
B = 79.5 – 89.5 points
C = 69.5 – 79.5 points
D = 59.5 – 69.5 points
F = 0-59.4 points

Assignment and Activity Descriptions

Assignment and Homework Policy

- Assignments will be accessed through Blackboard. Student will be expected to print out files as assigned. Student is also expected to work problem sets from text and access other assignments through MyOpenMath (MOM).
- Due dates will be shown in course calendar in Blackboard. Any student who is having trouble meeting set deadline must contact the instructor before the assignment is due during regular business hours.
- Pencil and paper assignments will be submitted through Gradescope.
- At the end of the semester, the three lowest assignment/homework scores will be dropped.

Assessments

- This course has been designed to promote mastery learning. The following standards will be assessed during the course:
  Standard 1: The learner will demonstrate ability to completely factor given expressions and will be able to explain, in text format, how to factor any trinomial.
  Standard 2: The learner will demonstrate ability to solve linear and rational equations.
  Standard 3: The learner will demonstrate ability to solve quadratic, radical, absolute value, and other types of equations using factoring and other methods as appropriate.
  Standard 4: The learner will solve linear and absolute value inequalities.
  Standard 5: The learner will determine whether given relation is a function and determine the domain and range of any given function.
  Standard 6: The learner will write, graph, and interpret linear functions from given information.
  Standard 7: The learner will demonstrate understanding of and ability to apply rules of exponents and radicals.
  Standard 8: The learner will identify key components of quadratic functions from equations, graph, and verbal descriptions and use those components to solve application problems.
  Standard 9: The learner will write, graph, and evaluate exponential functions.
  Standard 10: The learner will write, graph, and evaluate logarithmic functions.
  Standard 11: The learner will solve logarithmic and exponential functions.
  Standard 12: The learner will solve systems of linear equations in two and three variables.

- Each standard will be assessed separately. Assessment 1 will cover Standard 1, Assessment 2 will cover Standard 2, and so on. Any score below 60 will be recorded in the gradebook as a 0.
- Each assessment may be retaken as many times as needed, at the convenience of the instructor, with the following restrictions:
    - Only one retake will be allowed during a 24 hour period.
    - First attempt is made during scheduled course time (see course calendar for specific dates).
    - Second attempt must be scheduled with the instructor via email at least 24 hours in advance. Student will receive no higher than a 90 in the gradebook.
    - Third attempt will be allowed after student demonstrates mastery of the content by scoring 80 or higher on the MOM assignment(s) that support the specific assessment and must be scheduled with the instructor via email at least 24 hours in advance.. Student will receive no higher than a 90 in the gradebook.
    - Subsequent attempts will be allowed after student meets with instructor during office hours to discuss previous attempts and must be scheduled with the instructor via email at least 24 hours in advance.. Student will receive no higher than an 80 in the gradebook.
- The final score on each assessment will be the grade of the most recent attempt. Please note that this means a retake could lower the recorded score.
- The deadline for completing all assessment retakes is May 6 by 3:00 PM.

Final Exam

The final exam for this course will be comprehensive and as such will contain test items for the standards as well as other material covered during the course. There is only one attempt allowed for the final exam. The final exam for this course is scheduled for May 9, 1:00 PM..

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[5]
- Angelo State University Catalog[6]

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[7] (Page 97).

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.[8] The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dr. 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[9] for more information.

Plagiarism

Plagiarism is a serious topic covered in ASU's Academic Integrity Statement[10] 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.[11]

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[12] for more information.

Title IX at Angelo State University

Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. In accordance with Title VII, Title IX, the Violence Against Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex.

You are encouraged to report any incidents involving sexual misconduct to the Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator, Michelle Miller, J.D. You may submit reports in the following manner:

Online: Incident Reporting Form[13]
Face to Face: Mayer Administration Building, Room 210
Phone: 325-942-2022
Email: michelle.miller@angelo.edu

Note, as a faculty member at Angelo State, I am a mandatory reporter and must report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325-942-2371), the 24-Hour Crisis Helpline (325-486-6345), or the University Health Clinic (325-942-2171).

For more information about resources related to sexual misconduct, Title IX, or Angelo State's policy please visit the Title IX website.[14]

Information About COVID-19

Please refer to ASU's COVID-19 (Coronavirus) Updates[15] web page for current information about campus guidelines and safety standards as they relate to the COVID-19 pandemic.

Modifications to the Syllabus

This syllabus, including grade evaluation and course schedule, is subject to modification on potentially short notice based on developing circumstances.

Course Schedule

Date	Topic or Module	Activities
1/19	Orientation	Syllabus, Technology
1/21	1.1	Clarifying Activities
1/24	1.2	Clarifying Activities
1/26	1.3	Clarifying Activities
1/28	1.4	Clarifying Activities
2/2	1.5	Clarifying Activities
2/4	1.6	Clarifying Activities
2/7	2.1	Clarifying Activities
2/9	Standard 1	Assessment 1
2/11	2.2	Clarifying Activities
2/14	2.3	Clarifying Activities
2/16	2.4	Clarifying Activities
2/18	Standard 2	Assessment 2
2/21	2.3	Clarifying Activities
2/23	2.4	Clarifying Activities
2/25	2.5	Clarifying Activities
2/28	2.6	Clarifying Activities
3/2	2.7	Clarifying Activities
3/4	Standard 3	Assessment 3
3/7	3.1	Clarifying Activities

Date	Topic or Module	Activities
3/9	3.2	Clarifying Activities
3/11	Review	Mid-semester Review
3/21	4.1	Clarifying Activities
3/23	Assessment 4	Standard 4
3/25	5.1	Clarifying Activities
3/28	Assessment 5	Standard 5
3/30	1.2, 1.3	Clarifying Activities
4/1	6.1	Clarifying Activities
4/4	Standard 6	Assessment 6
4/6	6.2	Clarifying Activities
4/8	6.3	Clarifying Activities
4/11	Standard 7	Assessment 7
4/13	6.4	Clarifying Activities
4/15	Standard 8	Assessment 8
4/18	6.5	
4/20	Standard 9 and 10	Assessment 9, Assessment 10
4/22	6.6	Clarifying Activities
4/25	7.1, 7.2	Clarifying Activities
4/27	Standard 11	Assessment 11
4/29	Standard 12	Assessment 12
5/2	Review	Review for Final Exam
5/4	Review	Review for Final Exam
5/6	Review	Review for Final Exam
5/9	Final Exam	Final Exam – 1:00 PM

[1] https://blackboard.angelo.edu/
[2] www.openstax.org/details/college-algebra
[3] www.myopenmath.com
[4] https://www.angelo.edu/services/technology/support/
[5] https://www.angelo.edu/current-students/student-handbook/
[6] https://www.angelo.edu/academics/catalog/
[7] https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=97
[8] https://www.angelo.edu/current-students/disability-services/
[9] https://angelo.policystat.com/policy/10659448/latest/
[10] https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=97
[11] https://www.angelo.edu/current-students/writing-center/academic_honesty.php
[12] https://angelo.policystat.com/policy/10659368/latest/
[13] https://www.angelo.edu/incident-form
[14] https://www.angelo.edu/title-ix
[15] https://www.angelo.edu/covid-19/