

Math 1314.030

College Algebra – Spring 2022



Disclaimer:

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

Math 1314.030 meets Tuesdays and Thursdays at 9:30am in MCS 210.

Instructor: Ashlee Fuchs

Email: ashlee.fuchs@angelo.edu

Phone: (325) 486-5433

Office: MCS 220E

Office Hours:

Monday: 9:00am – 10:00am

Tuesday: 12:30pm – 2:15pm

Wednesday: 9:00am – 10:00am; 1:00pm – 2:15pm

Thursday: 12:30pm – 2:15pm

Friday: 9:00am – 10:00am; 11:00am – 1:15pm

Note: Please make an appointment for office hours when possible. Use Navigate to schedule an appointment. More instructions can be found in Blackboard.

Student Expectations

- Maintain academic honesty.
- Complete each assignment by the specified due date.
- Be a positive influence in classroom learning environment by being courteous and respectful to everyone in class. This includes office hour visits and written communication.
- It is your responsibility to put in as much effort as it takes to earn your desired grade. This includes utilizing (as needed) all available study aid options (attending office hours and/or getting help from the Math Lab, emailing the instructor, etc.) to resolve any questions or concerns you might have about any aspect of the course.

Course Information

Course Delivery

This is a face-to-face course. We will meet in person. If you are absent for ANY reason, you will be expected to watch a recording of the lecture and complete coursework via [Blackboard](#).¹ Assignments will be submitted in Gradescope.

Technology Requirements

- You will also need a scanner (or a scanning app for your phone),
- Webcam and microphone. (Most laptops come equipped with both a webcam and microphone.)
- You will need access to a printer. If you don't have your own, there are computer labs on campus for you to print your notes/worksheets.

Course Content

Textbook: College Algebra from OpenStax. This is a free textbook available online at <https://openstax.org/details/college-algebra-2e>. You can also purchase a print version, if you prefer, via the campus bookstore. The following topics are covered.

1. **A Review of Basic Algebra:** Real Numbers; Integer Exponents and Scientific Notation; Rational Exponents and Radicals; Polynomials; Factoring Polynomials; Rational Expressions.
2. **Equations and Inequalities:** Linear Equations and Rational Equations; 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.
4. **Functions:** Graphs of Functions.
5. **Polynomial and Rational Functions:** Quadratic Functions
6. **Exponential and Logarithmic Functions;** Exponential Functions and Their Graphs; Logarithmic Functions and Their Graphs; Properties of Logarithms; Exponential and Logarithmic Equations.
7. **Linear Systems:** Systems of Linear Equations.

Student Learning Outcomes

1. **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.

2. **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.
3. **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.
4. **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.

Grading

Evaluation and Grades

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

Assignment	Percent of Total Grade
Class Participation (Attendance/Quizzes)	8%
Homework	12%
Exam 1	15%
Exam 2	15%
Exam 3	15%
Exam 4	15%
Final Exam	20%

Grading System

The following grading scale is in use for this course:

- A = 90.00-100 %
- B = 80.00-89.99 %
- C = 70.00-79.99 %
- D = 60.00-69.99 %
- F = 0-59.99 %

Drop Date

The last day to drop a class is Thursday, April 28, 2022.

Major Course Requirements

Lecture Notes

- It is your responsibility to print the lecture notes from Blackboard and bring them to class each day. I strongly suggest keeping your notes and other class materials in a 3-ring binder.

Blackboard and Email

- I post notes, reviews, and other documents on Blackboard. I expect you to print these documents and bring them with you to class when I tell you to. I will also post grades and other important announcements on Blackboard.
- Blackboard can be accessed through RamPort or by visiting <http://blackboard.angelo.edu>.
- I will frequently send you information via email. It is your responsibility to regularly check your angelo.edu email account. All communication outside of class will be sent to your ASU e-mail account. I will do my best to respond to all emails by the next business day.

Attendance Policy

Attendance is part of your grade included in the Class Participation category.

- If you are in class and actively participating, you will receive a 100 for a daily grade.
- If you are tardy, it is your responsibility to let me know after class so I can change my records.
- If you are absent (not physically present) then you will receive a 0 for a daily grade.
- To be counted virtually present and have your 0 removed (changed to a 100) **you must notify me via e-mail by 2:00pm of the day of your absence from class.**

Watch the recording of the lecture and fill in your notes as you watch. Once complete, you must upload a scan of your notes into the designated spot in Gradescope before the next class meeting.

Homework Policy

- Homework will be assigned over every section covered. Each section will include a written portion from the textbook (pencil and paper) and an online portion. The written portion is worth 90 points and the online portion is worth 15 points.
- Pencil and paper homework will be submitted in **Gradescope**.
- Homework is due **on Tuesdays and Fridays at 11:59pm**.
- **No late homework will be accepted.**

- You will need to scan pictures of every page of your homework, convert it to a pdf file, and upload it to Gradescope.
- ***It is your responsibility to make sure the upload is successful before the assignment is due.***
- If you need assistance with an assignment, see me for help **before** it is due.
- I will drop 3 homework grades at the end of the semester to compensate for unavoidable circumstances.
- Box and/or highlight your answers.
- Write legibly. If your answer cannot be read, it is wrong. Show all necessary work.

Exams/Final Exam

- There will be 4 exams during the semester and a cumulative final. Non-graphing calculators are allowed on the exams. If you have questions, feel free to contact me. All exams will be paper and pencil format.
- **There will be no make-up exams.** If you do miss an exam for any reason, please contact me immediately.
- If it benefits you, your final exam grade may replace your lowest test grade. This means that if you miss one exam, your final exam grade will replace it. If you miss an additional exam, you will receive a grade of zero for it.
- The dates below are tentatively scheduled. If you are unable to take your exam on the date given, please email me and we will find a solution.

Exam	Date
Exam 1	Tuesday, February 15 th 5pm – 7pm
Exam 2	Tuesday, March 8 th 5pm – 7pm
Exam 3	Tuesday, April 5 th 5pm – 7pm
Exam 4	Tuesday, April 26 th 5pm – 7pm
Final Exam	Thursday, May 12 th 8:00am – 10:00am

Math Lab

There is a free math lab where you can do your homework and get help with it. It is located on the third floor of the library in room C302. Math Lab Hours can be found at this location on the Angelo State University website:

http://www.angelo.edu/dept/mathematics/lab_hours.php

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](#)²

- [Angelo State University Catalog](#)³

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](#).⁴

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](#).⁵ 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](#)⁶ for more information.

Plagiarism

Plagiarism is a serious topic covered in ASU's [Academic Integrity policy](#)⁷ 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](#).⁸

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](#)⁹ 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 Miller, J.D.

Special Assistant to the President and Title IX Coordinator

Mayer Administration Building, Room 210

325-486-6357

michelle.boone@angelo.edu

You may also [file a report online](#)¹⁰ 24/7.

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, visit the [Title IX website](#).¹¹

Information About COVID-19

Please refer to ASU's [COVID-19 \(Coronavirus\) Updates](#)¹² 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.

Course Schedule

- Week 1 – Syllabus, 1.1, 1.2
- Week 2 – 1.3, 1.4
- Week 3 – 1.4, 1.5
- Week 4 – 1.6, 2.2
- Week 5 – Exam 1, 2.3, 2.4
- Week 6 – 2.5, 2.6
- Week 7 – 2.6, 2.7,
- Week 8 – Exam 2, 2.7
- Week 9 – 2.1, 3.1, 3.2, 4.1
- Week 10 – 4.1, 5.1
- Week 11 – Exam 3, 6.1/6.2, 6.3/6.4
- Week 12 – 6.5, 6.6
- Week 13 – 6.6, 7.1,
- Week 14 – Exam 4, 7.2
- Week 15 – Review for the Final Exam
- Week 16 – Final Exam

¹ <https://blackboard.angelo.edu/>

² <https://www.angelo.edu/current-students/student-handbook/>

³ <https://www.angelo.edu/academics/catalog/>

⁴ <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=97>

⁵ <https://www.angelo.edu/current-students/disability-services/>

⁶ <https://angelo.policystat.com/policy/10659448/latest/>

⁷ <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=97>

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- 8 https://www.angelo.edu/current-students/writing-center/academic_honesty.php
- 9 <https://angelo.policystat.com/policy/10659368/latest/>
- 10 <http://www.angelo.edu/incident-form>
- 11 <https://www.angelo.edu/title-ix>
- 12 <https://www.angelo.edu/covid-19/>