



Groveton (Dual Credit) · Science and Mathematics · Mathematics

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# College Algebra

## MATH-1314

2025-2026 Fall 2025 Section X25 3 Credits 08/18/2025 to 12/11/2025 Modified 08/13/2025

### Meeting Times

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Mon - Thurs 10:41-11:35 am

### Contact Information

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Rogelyn Andrews

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Phone : 936-642-1473 EXT 8105

Email is the best way to reach me. Please allow 48 hours for a response.

### Description

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Three hours credit. In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. Prerequisite: Meet TSI college readiness standard for Mathematics or equivalent

### Outcomes & Objectives

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#### Course 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 Objectives:

Students completing this Texas Core Curriculum course will develop the following essential knowledge and skills they need to be successful in college and in their career:

**Communication** - effective development, interpretation and expression of ideas through written, oral and visual communication.

**Critical Thinking** - creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.

**Empirical and Quantitative Skills** - manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

## Materials

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### College Algebra

**Author:** Jay Abramson

**Publisher:** OpenStax

**ISBN:** 978-1-938168-38-3

### Edfinity Online Homework

Edfinity online access can be purchased online directly from Edfinity or from the AC bookstore.

### Graphing Calculator

Graphing calculator – A TI (Texas Instruments) graphing calculator is highly recommended.

NOTE: TI-89, TI-92, or any calculator with CAS-software may not be used on the assessments. The TI-84 graphing calculator will be used by the instructor in classroom demonstrations.

## Deliverables

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## Evaluation

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Your grade will be assessed by:

1. Four tests (the last of which is a mandatory comprehensive final exam) which account for 75% of final grade. There are NO make up exams. Your final exam grade may be used to replace one missing or one low test grade. You will only be allowed to use a graphing calculator and the formula chart provided by your instructor on the exams.
2. Homework on Edfinity will account for 20% of final grade.

The homework should be done on your home computer if possible. If not, there are campus sites available at the library.

Missing 5 assignments is considered a lack of participation and may result in an instructor drop.

3. One project which will count for 5% of your final grade.

### **Determination of Grade** (*assignment of letter grades*)--

Grades will be assigned according to the scale below.

90% - 100% = A

80% - 89% = B

70% - 79% = C

60% - 69% = D

Below 60% = F

The instructor reserves the right to adjust grades upward from this scale.

## Course Policies

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### Student Conduct

A positive environment for learning will be maintained by students being courteous to each other and to the instructor. Eating, drinking, sleeping, and distracting others during class will not be allowed. Repeated tardiness will result in warning; if continued, this will result in further action depending upon seriousness of problem. Regular attendance is also expected as per college policy.

Cheating is not tolerated as per Angelina College policy and may result in expulsion from the course. No electronic devices of any kind may be accessible during assessments. Failure to adhere will result in a zero for the assessment which will not be eligible for test replacement. Plagiarism is considered cheating.

Cell phones and electronic devices must be turned off on to a silent mode.

## Institutional Attendance Policy

Attendance is required per Angelina College Policy and will be recorded every day. Any student with 3 consecutive or 4 cumulative absences or who misses 12% or more of course's scheduled meeting time may be dropped from the class. Records will be turned in to the Registrar's Office at the end of the semester. Do not assume that non-attendance in class will always result in an instructor drop. **You must officially drop a class or risk receiving an F.**

For practicum or clinical courses, refer to the program handbook and course policies for attendance requirements.

## Educational Accommodations

Educational Accommodations - If you have a disability (as cited in Section 504 of the Rehabilitation Act of 1973 or Title II of the Americans with Disabilities Act of 1990) that may affect your participation in this class, you may fill out the Educational Accommodations application within your AC Portal (Student Services). A Student Affairs team member will contact you once the application is received. At a post-secondary institution, you must self-identify as a person with a disability in order to receive services; for questions regarding the application process you can visit the Office of Student Affairs or email [studentservices@angelina.edu](mailto:studentservices@angelina.edu). To report any complaints related to accommodations, you should contact Renee McCain, Manager of Disability Services and Tutoring. You may contact Ms. McCain by calling (936) 633-4504 or by emailing [rmccain@angelina.edu](mailto:rmccain@angelina.edu) (<mailto:rmccain@angelina.edu>).

## Notice of Non-Discrimination

Angelina College provides education and employment opportunities without discrimination on the basis of race, color, religion, national origin, sex, disability, age, sexual orientation, gender identity or gender expression. Angelina College complies with the Americans with Disabilities and Veterans Act. If you need to file a complaint, complete the [Student Complaint and Appeal Form](https://myac.angelina.edu/ICS/Students/Student_Complaint_and_Appeal.jnz) ([https://myac.angelina.edu/ICS/Students/Student\\_Complaint\\_and\\_Appeal.jnz](https://myac.angelina.edu/ICS/Students/Student_Complaint_and_Appeal.jnz)) located in the Students tab in the MyAC Portal.

## Technology Requirements

Students are expected to have basic computer skills including the ability to navigate the Internet, access and send email from their AC email account (available at [mail.student.angelina.edu](mailto:student.angelina.edu) (<http://mail.student.angelina.edu/>)), and access class materials in Blackboard ([angelina.blackboard.com](http://angelina.blackboard.com) (<http://angelina.blackboard.com/>)). Some classes may require use of Microsoft Word, Excel, and/or PowerPoint and to create and save documents that may be attached to emails or assignments in Blackboard. A webcam and/or microphone may be required for online classes.

# Password Management

- College issued or required passwords, including digital certificate passwords, Personal Identification Numbers (PIN), Digital Certificates, Security Tokens (i.e. Smartcard), or similar information or devices used for identification and authorization purposes shall be maintained securely and shall not be shared or disclosed to anyone.
- Users must not give others access to College Information Resources unless they are authorized and authenticated for such access. Users may not extend access to College information resources to others without permission (e.g., proxy services, accounts for non-College personnel, etc.).
- Each user will be held responsible for all activities conducted using the User's password or other credentials.

# Syllabus Modification

The instructor may modify the provisions of the syllabus to meet individual class needs by informing the class in advance as to the changes being made.

# Academic Integrity

- Angelina College expects complete honesty from each student in all phases of coursework. Breaches of academic integrity and honesty include cheating, plagiarism, and the unauthorized possession or disposition of academic materials. Angelina College considers any breach of academic integrity and honesty as a violation of acceptable student conduct, and instructors and/or the Student Affairs Official will address any violation. The [Student Handbook](https://www.angelina.edu/student-handbook/) (<https://www.angelina.edu/student-handbook/>) is available on the AC website or from the Office of Student Affairs.
- Please see the Section F of the [Policy and Procedure Manual](https://sites.google.com/angelina.edu/policy-manual/home) (<https://sites.google.com/angelina.edu/policy-manual/home>) for additional student policies.

## Campus Resources

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### Course Assistance

If you need course-related assistance, contact your instructor. If you are unable to satisfactorily resolve any course-related issue after contacting your instructor, contact the academic administrator supervising the area.

### Technical Support

If you need assistance with Blackboard, the MyAC portal, or any other College-provided technology, contact the IT Helpdesk for assistance. They can be reached at [ithelpdesk@angelina.edu](mailto:ithelpdesk@angelina.edu) (<mailto:%20ithelpdesk@angelina.edu>) and at (936) 633-5208.

## Tutoring

Tutoring is available for many subjects through the Tutoring Center located in room 202 of the Library. For more information on the Tutoring Center, subject offered, making appointments for virtual tutoring, and the Tutoring Center calendar please visit their [Tutoring Center \(https://www.angelina.edu/tutoring/\)](https://www.angelina.edu/tutoring/) webpage. If you need assistance, please contact [tutoring@angelina.edu \(mailto:%20tutoring@angelina.edu\)](mailto:tutoring@angelina.edu).

Tutor.com is available for 24/7 virtual tutoring. You can use this free service by clicking the Tutor.com link in your Blackboard course.

## Testing Center

The Testing Center is located in room 103 of the Library. It offers testing for TSI and for online courses. An appointment must be made in advance to take an exam in the Testing Center. Visit the [Testing Center \(https://www.angelina.edu/testing/\)](https://www.angelina.edu/testing/) webpage to reserve an appointment.

## Roadrunner Central

Roadrunner Central is located on the first floor of the Student Center in room 100. If you need assistance with enrollment, transcripts, transfer credits, payment options, or financial aid, Roadrunner Central is the place to go.

## Roadrunner Market

Angelina College is proudly partnering with Brookshire Brothers, Christian Information & Service Center, and East Texas Food Bank to support the Roadrunner Market. Additionally, clothing vouchers are available through the Office of Student Affairs, in partnership with the Family Crisis Center of Lufkin. Visit the [Roadrunner Market \(https://www.angelina.edu/roadrunner-market/\)](https://www.angelina.edu/roadrunner-market/) webpage for more information.

## Grade Appeals

If you need to appeal your grade, contact your instructor first. If you need to file an official grade appeal, complete the [Student Complaint and Appeal Form \(https://myac.angelina.edu/ICS/Students/Student\\_Complaint\\_and\\_Appeal.jnz\)](https://myac.angelina.edu/ICS/Students/Student_Complaint_and_Appeal.jnz) located in the Students tab in the MyAC Portal.

## Student Handbook

The [Student Handbook \(https://www.angelina.edu/student-handbook/\)](https://www.angelina.edu/student-handbook/) is available on the AC website or from the Office of Student Affairs.

## AC Library

In addition to housing both physical and digital books, articles, and journals, our campus library provides access to knowledgeable librarians to assist you with selecting appropriate sources for your research. You can also reserve study rooms, chat online with a librarian, and utilize campus

computers. Visit the [AC Library Resources \(https://www.angelina.edu/ac-library/\)](https://www.angelina.edu/ac-library/) webpage for more information.

## MyAC Portal

Log into the [MyAC Portal \(https://myac.angelina.edu/ICS/\)](https://myac.angelina.edu/ICS/) to get information on advising, registering for classes, financial aid, paying your bill, transcripts, and more.

## Campus Security

The campus police are responsible for keeping the Angelina College campus safe. Campus security is available 24/7 and can be contacted by calling 936-676-2563 for assistance.

## Angelina College Public Health Resource Center

The Angelina College Public Health Resource Center is a partnership that provides health and well-being services while creating campus-wide public health response resiliency for staff and students at AC. They are in Hudgins Hall, Rm 105 and can be contacted at (936) 633-5236. Their hours can be found on their website, which is: <https://www.angelina.edu/student-services/angelina-college-public-health-resource-center/> (<https://www.angelina.edu/student-services/angelina-college-public-health-resource-center/>)

## Schedule

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Week	Date	Section	Topic
1	8/18-8/21	1.2	Exponents & Scientific Notation
		1.3	Radicals & Rational Exponents
2	8/25-8/28	1.4	Polynomials
		1.5	Factoring Polynomials
3	9/1-9/4	2.2/2.3	Linear Equations
4	9/8-9/11	2.7	Linear Inequalities
		2.4	Complex Numbers
5	9/15-9/18	2.5	Quadratic Equations

		2.6	Other Equations
6	9/22-9/25	1.6/2.2	Rational Expressions and Equations
		Exam #1	
7	9/29-10/2	2.1/2.2	Coordinate System/Linear Equations
		3.1	Functions
8	10/6-10/9	3.2/3.3	Domain & Range/Increasing & Decreasing
		3.4	Operations with Functions
9	10/13-10/16	3.5	Transformations
		3.7	Inverse Functions
10	10/20-10/23	Exam #2	
		5.1	Quadratic Functions
11	10/27-10/30	5.2/5.3	Power Functions & Polynomials
		5.4	Dividing Polynomials
12	11/3-11/6	5.5	Zeros of Polynomials
		5.6	Rational Functions
13	11/10-11/13	Exam #3	
		6.1/6.2	Exponential Functions & Their Graphs
14	11/17-11/20	6.3/6.4	Logarithmic Functions & Their Graphs



		6.5	Log Properties
15	12/1-12/4	6.6	Exponential & Log Equations
		7.7	Solving Systems of Equations with Matrices
16	12/8-12/11	Final Exam	