Course Information

Course Description
Topics include basic algebra, linear equations, quadratic equations, functions and graphs, inequalities, logarithms and exponential functions, mathematics of finance, linear programming, matrices, systems of linear equations, and applications to management, economics, and business.

Student Learning Outcomes
Upon completion of this course:
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 Finite Mathematics I including exponents, factoring, linear and quadratic equations, number systems, functions, polynomials, logarithms, matrices, mathematics of finance, set theory, and basic probability.

2. **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 properties associated with
probability models and probability experiments, the properties of exponents, logarithms, equations, and the formulas associated with the mathematics of finance.

3. **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 solve basic business problems. This includes applying probability models to business problems; solving annuity and interest problems; analyzing and interpreting graphs; converting logarithmic equations to exponential equations and vice-versa; using lines and their properties; performing matrix operations; graphing various function types; and employing the use of calculators and/or computers.

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 areas requiring Finite Mathematics I as a prerequisite. These areas might include business, marketing, finance, computer science, nursing, and the social sciences, as well as mathematics.

**Statement for Asynchronous Remote Sessions**

To maintain academic quality while accommodating social distancing needs this semester, this course will use a split delivery model that combines face-to-face teaching with remote instruction.

The goal is to provide face-to-face instruction to students who want to return to campus, while also allowing students who may need to learn remotely to participate via virtual class sessions.

**How Does It Work?**

Your class will be divided and you will be placed into a smaller group of students to maintain physical distancing requirements in our assigned classroom space.

Your assigned group will receive a schedule of in-person class meetings. This schedule is not flexible. For instance, if you are supposed to attend class on a Monday, you cannot elect to go on Wednesday with another class group instead.

When you are not in the physical class, you will be responsible for completing assigned coursework in Blackboard. **Error! Bookmark not defined.** This work can be completed any time before the posted deadline.

Please refer to this Health and Safety web page **Error! Bookmark not defined.** for updated information about campus guidelines as they relate to the COVID-19 pandemic.
Required Texts and Materials

*College Algebra*, 2015, by Abramson, OpenStax College. [College Algebra - OpenStax](https://openstax.org/details/books/college-algebra)

Access to Blackboard is required. All homework, handouts and tests will be administered through Blackboard.

Technology Requirements

To successfully complete this course, students need to have access to a computer to log in to Blackboard. Course videos, notes, homework, quizzes and other assignments will be posted in Blackboard.

Access to exams and quizzes will be through Respondus Lockdown Browser and will be video recorded via Respondus Monitor. Respondus requires a desktop computer or laptop (not a Chromebook) and a webcam. For best results, use an ethernet cable to connect to your Internet source instead of relying on Wifi. Refer to the Blackboard course for Respondus installation instructions.

All office hours and class sessions will be in Bb Collaborate. You will be required to access collaborate during class time.

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 using Blackboard Collaborate. A link will be available in Blackboard.

Grading

Evaluation and Grades

Course grades will be determined as indicated below.

- Homework: Homework will be assigned at the end of every lesson. You are expected to complete all homework problems in Blackboard. Homework will count 20% of your overall grade.
- Quizzes: Four quizzes will be taken online. These will count 20%
• Midterm Exam: A proctored midterm exam will be given October 5 and 7 during class time. The midterm will cover material from quizzes 1 and 2. The midterm will count 30% of your overall grade.

• Final Exam: A comprehensive final exam will be given Friday November 20 8:00 am – 10:00 am (group A), Friday November 20 10:30 am – 12:30 pm (group B). The final exam will be a proctored test. The final exam will count 30% of your overall grade.

• All grades will be posted in Blackboard as they are graded. Your overall average will be available in the Blackboard grade book. Final grades will be posted in RamPort at the end of the semester.

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

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

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.

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. 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* for more information.

**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. Resources to help you understand this policy better are available at the ASU Writing Center.
**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.

**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 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.

**Required Use of Masks/Facial Coverings by Students**
As a member of the Texas Tech University System, Angelo State University has adopted the mandatory Facial Covering Policy to ensure a safe and healthy classroom experience. Current research on the COVID-19 virus suggests there is a significant reduction in the potential for transmission of the virus from person to person by wearing a mask/facial covering that covers the nose and mouth areas. Therefore, in compliance with the university policy students in this class are required to wear a mask/facial
covering before, during, and after class. Faculty members may also ask you to display your daily screening badge as a prerequisite to enter the classroom. You are also asked to maintain safe distancing practices to the best of your ability. For the safety of everyone, any student not appropriately wearing a mask/facial covering will be asked to leave the classroom immediately. The student will be responsible to make up any missed class content or work. Continued non-compliance with the Texas Tech University System Policy may result in disciplinary action through the Office of Student Conduct.

Modifications to the Syllabus
This syllabus, including grade evaluation and course schedule, is subject to modification. In particular, the COVID-19 pandemic may require significant changes in course delivery and content on potentially short notice.

Course Schedule

<table>
<thead>
<tr>
<th>COURSE OUTLINE</th>
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<tbody>
<tr>
<td><strong>QUIZ 1 HOMEWORK</strong></td>
</tr>
<tr>
<td>1.1: The Real Numbers, 1.2: Polynomials</td>
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<tr>
<td>1.3: Factoring, 1.4: Rational Expressions</td>
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<tr>
<td>1.5: Exponents and Radicals, 1.6: First-Degree Equations</td>
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<td>1.7: Quadratic Equations, 2.1: Graphs</td>
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<td>2.2: Equations of Lines, 2.4: Linear Inequalities</td>
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<tr>
<td><strong>QUIZ 2 HOMEWORK</strong></td>
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<tr>
<td>3.1: Functions, 3.2: Graphs of Functions</td>
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<tr>
<td>3.3: Applications of Linear Functions, 3.4: Quadratic Functions and Applications</td>
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<tr>
<td>4.1: Exponential Functions, 4.3: Logarithmic Functions</td>
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<tr>
<td>4.4: Exponential and Logarithmic Equations</td>
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<tr>
<td><strong>QUIZ 3 HOMEWORK</strong></td>
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<tr>
<td>5.1: Simple Interest and Discount, 5.2: Compound Interest</td>
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<td>5.3: Annuities and Future Value, 5.4: Annuities and Present Value</td>
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<tr>
<td>6.1: Systems of Two Linear Equations</td>
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<td>6.3: Applications of Linear Systems</td>
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<td><strong>QUIZ 4 HOMEWORK</strong></td>
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<tr>
<td>6.4: Basic Matrix Operations, 6.5: Matrix Product and Inverses</td>
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<td>8.1: Sets</td>
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<tr>
<td>8.3: Introduction to Probability, 8.4: Basic Concepts of Probability</td>
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<td>8.5: Conditional Probability</td>
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