Instructor: Juan Montemayor
Email: Juan.Montemayor@angelo.edu
Phone: 325-486-5438
Office: MCS 219 F

Office Hours: Tentatively set for MWF 8:30-9:00 AM, 1:00-2:00 PM, 3:00-3:15 PM
TTh 8:30 – 9:30 AM, 1:45 – 3:15 PM

Course Information – may be updated as needed

Course Description

Course Content

Textbook: Suggested but not required
Mathematical Applications, 11th edition, by Harshbarger and Reynolds. The following chapters including the particular sections listed are covered.

0. Algebraic Concepts. Sets, real numbers; exponents; radicals; operations with algebraic expressions; factoring; algebraic fractions.

1. Linear Equations and Functions. Solutions of linear equations and inequalities; functions; linear functions; systems of linear equations; applications of functions in business and economics.

2. Quadratic and Other Special Functions. Quadratic equations; quadratic functions: parabolas; business applications.


4. Exponential and Logarithmic Functions. Exponential functions; logarithmic functions and their properties; solution of exponential equations; applications.

5. Mathematics of Finance. Simple interest; compound interest; future value of ordinary annuities; present values of ordinary annuities; loans and amortization.

7. Introduction to Probability. Probability; odds; union and intersection of events; conditional probability; probability trees.
Prerequisite and Co-requisite Courses
Basic arithmetic knowledge is assumed and expected. An ability to learn and relearn topics such as operations and properties on real numbers is expected.

Prerequisite Skills
Accessing Internet websites including Blackboard, ability to find and use ASU resources such as math lab, and math instructor’s office, understanding the instructor's definition of studying – not the day before an exam, but being able to study throughout the semester.

Student Learning Outcomes
Upon completion of this course
Mathematics 1324 – Finite Mathematics I

1. The 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 set theory, inequalities, linear and quadratic equations, number systems, polynomials, exponents, logarithms, matrices, probability, and mathematics of finance.

2. The 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. The 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. The 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.

Course Delivery
This is a face-to-face course with learning resources given in class or class lecture and some supplemental materials posted in Blackboard. Material may also come from class textbook.
Required Texts and Materials

*Suggested but not required*

*Mathematical Applications, 11th edition,* by Harshbarger and Reynolds.

Technology Requirements

To successfully complete this course, students need to have a non-scientific calculator. You may not get to use it on quizzes or exams but you are allowed to make use of calculator as a checkpoint on homework assignments. There will be sections of the course that will require the use of calculators. At no time will your calculator be a graphing calculator. Approval of instructor of the type of calculator may be required. Ask before a quiz or an exam. Be able to download documents from blackboard. If you are using a chrome type computer, make sure the printout is complete and accurate.

Communication

You may leave messages via email and/or phone messages. I will respond as promptly as possible during working hours. Email messages should be sent and received through your ASU email address. Check frequently for announcements and policy changes. In your emails to faculty, include course name and section number in your subject line.

Grading

Evaluation and Grades

A more extensive explanation will be given in class on the first day of class. Course grades will be determined as indicated in the table below. Remarks about grading process will also be posted on blackboard no later than the second day of class.

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percent of Total Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework and attendance</td>
<td>approximately 10</td>
</tr>
<tr>
<td>Quizzes</td>
<td>Tentatively 10</td>
</tr>
<tr>
<td>Tests/Exams</td>
<td>Tentatively 80</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>
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 (Grades are not rounded up)

Assignment and Activity Descriptions
Exams make up the largest percentage of your semester grade followed by quiz grades and then homework and attendance. More about the grading process on the first day of class.

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 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
Tests dates and quizzes will be posted on blackboard and discussed in class.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic or Module</th>
<th>Activities</th>
<th>Homework</th>
<th>Homework Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Three regularly scheduled Exams plus Final exam</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quizzes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Daily Homework Assignments</td>
<td></td>
<td></td>
<td></td>
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</tbody>
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1. [https://www.angelo.edu/student-handbook/](https://www.angelo.edu/student-handbook/)
2. [https://www.angelo.edu/catalogs/](https://www.angelo.edu/catalogs/)
4. [https://www.angelo.edu/services/disability-services/](https://www.angelo.edu/services/disability-services/)
5. [https://www.angelo.edu/content/files/14197-op-1011-grading-procedures](https://www.angelo.edu/content/files/14197-op-1011-grading-procedures)
7. [https://www.angelo.edu/dept/writing_center/academic_honesty.php](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](https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of)