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.

Instructor
Juan Montemayor
Office: MCS 219 F
Phone #: 325 – 486 – 5438
Email: juan.montemayor@angelo.edu

Office Hours
Tentatively set as follows and may be slightly modified by the first day of class
MWF: 9:30 – 10:00 AM and 3:00 – 5:00 PM, TTh: 9:30 – 11:00 AM and 4:15 – 5:15 PM, F: 9:30 – 10:00 AM

Tentative Math Lab Hours
Located on the third floor of the library room C302
Monday – Thursday: 9:00 AM – 8:00 PM, Friday: 9:00 AM – 12:00 PM, and Sunday 4:00 – 8:00 PM

Notice
You are encouraged to be in attendance during each class meeting. No make-ups will be given for missed quizzes, homework assignments, or exams. If you leave early, come late, leave the classroom you may be counted absent for the day. There are four major exams to be given during the semester – plus the final exam. If you miss one of the first four exams, a discussion between student and instructor will be held to see if anything can be done to alleviate the problem. Student must initiate the conversation with a written valid excuse stating the reason for missing exam. If the excuse is deemed to be valid by the instructor then a solution will proposed by the instructor. In most cases, the final exam grade will replace missed exam. This will happen only if instructor has approved the absence. Otherwise, a grade of zero will be recorded for missed exam.

Cell Phone Use
Use of cell phone in class is strongly discouraged. Put phone away when entering classroom. You may be asked to leave the class if you are seen making use of your cell phone in any manner. Touching, glancing, and leaving the classroom to answer the phone will all be considered instances of disruption to the class and any disruption of class will result in immediate dismissal from class. You may return to class only after a meeting with instructor outside of class time. In case you have a need for your phone – emergencies – let me know and an exception will be made for that case.

Important Dates
Exam I Wednesday Sept. 19
Exam II Friday Oct. 12
Exam IV Friday Nov. 30
Exam V Final Exam Monday Dec. 10
Exam III Monday Nov. 5
Drop Day on Thurs. Nov. 1

Textbook
Mathematical Applications, 11th edition, by Harshbarger and Reynolds
Grading Periods
There will be five grading periods each of which will make up 20% of your grade. The first four grading periods have a daily grade section associated with the grade. The last grading period consists of only the final exam with no daily grade. More will be said in class about the grading process.

Percentage
Daily grade is 15% of each grading period. The remaining 85% comes from the exam given in each grading period. The final grading period has no daily grade component and the entire testing period consists entirely of the final exam.

Daily Grade
You will be given 7 daily grades during each of the testing periods. The lowest two grades in each testing period will be dropped. The remaining five daily grades will be averaged to give you a daily grade average for each testing period. Daily grade consists of a quiz, a homework assignment, attendance and class participation. More will be discussed on the first day of class.

Homework
A homework assignment is 40% of daily grade. Grading process will be discussed in class. Homework cannot be turned in late but it can be turned in early or on time. No make-ups on missed assignments.

Quizzes
A quiz is worth 40% of the daily grade. You must be in class to get any credit on quiz. No make-ups on missed quizzes.

Attendance and Class Participation
Attendance is worth the remaining 20% of daily grade. You must be on time and not leave class early. Leaving the classroom early or during lecture for any reason may decrease your daily grade. This part of daily grade is left entirely up to instructor.

Exams
You will have 50 minutes to finish each of the four semester exams. You will have two hours to finish final exam. If room is available, you can walk in five minutes early or stay five minutes after class to work on exam. In most cases, this will not be possible so make sure to come on time. No graphing calculators will be allowed on exams. Answers should always have algebraic work associated with them. No answers should be obtained by guessing.

Semester Letter Grade
A semester average will be computed based on daily grades, take-home exams, and in class exams. An in-person explanation of the grading process will be given on first day in class.

100 – 90 is an A, 80-89 is a B, 70-79 is a C, 60 – 69 is a D, any average below 60 is an F.
Mathematics 1324 – Finite Mathematics I

Student Learning Outcomes

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 Content

Textbook: 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.


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

6. 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.
Tentative Schedule with tentative exam dates
Please note that this schedule is subject to change on a daily basis; check Blackboard for up-to-date information.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
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| 1    | Introduction – sections 0.1 and 0.2  
Sets; properties and operations of sets, Universal set, empty set, union, intersection, venn diagram, complement of a set, and more  
Numbers sets; counting numbers, whole numbers, integers, rational numbers, irrational numbers, and the set of real numbers, properties of real numbers  
an introduction to exponent and exponent notation |
| 2    | Section 0.3 and 0.4  
exponents and radicals;  
Section 0.5 An introduction to polynomials and algebraic expressions  
definition of polynomials, operations with polynomials and algebraic expressions;  
Section 0.5 finish polynomials and polynomial operations  
Section 0.6 factoring polynomials;  
Section 0.7 algebraic fractions. |
| 3    | Section 1.1 linear equations and inequalities in one variable  
Sections 1.2 and 1.3  
functions and linear functions  
Exam 1 |
| 4    | Section 1.5 Solutions of systems of linear equations  
Section 1.6 Applications of functions in Business and Economics |
| 5    | Section 2.1 Quadratic Equations  
Section 2.2 Quadratic Functions – parabolas |
| 6    | Section 3.1 Matrices and multiplications of matrices  
Catch up on material |
| 7    | Midterm Exam  
October 17  
Section 3.3 Gauss- Jordan Elimination method  
Section 5.1 Exponential Functions |
| 8    | Section 5.2 Logarithmic functions and their properties  
Section 5.3 Equations and applications with Exponential and Logarithmic functions |
| 9    | Section 6.1 Simple Interest and sequences  
Section 6.2 Compound Interest and geometric sequences |
| 10   | Sections 6.3, 6.4, and 6.5 Annuities and Loans and amortization  
Exam 3 |
| 11   | Finish chapter 6 and catch up day |
| 12   | Sections on chapter 7 |
| 13   | Sections on chapter 7 |
| 14   | Finish chapter 7  
Catch up on material and review for final exam |
| 15   | Final exam  
Monday Dec. 10 @ 10:30 AM – 12:30 PM for class that meets at 10:00 – 10:50 AM MWF  
Monday Dec. 10 @ 3:30 PM - 5:30 PM for class that meets at 2:00 – 2:50 PM MWF |
Student Responsibilities

The student is solely responsible for:

- Completing each assignment by the specified due date.
- Obtaining assignments and other materials for classes from which they are absent.
  - Utilizing, as needed, all available study-aid options (including meeting with the instructor, referring to outside texts, etc.) to resolve any questions that they might have regarding homework, course material, etc.
- Realizing from the beginning of the course the grade that they may need or want to graduate, maintain a scholarship, stay in athletics, etc. … and give as much effort as it takes to obtain this grade.

Student Disability Services

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.

The Office of Student Affairs is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the student’s responsibility to initiate such a request by contacting:

Dallas Swafford  
Director of Student Disability Services  
Office of Student Affairs  
325-942-2047  
dallas.swafford@angelo.edu

Title IX

Angelo State University is committed to the safety and security of all students. If you or someone you know experience sexual harassment, sexual assault, domestic or dating violence, stalking, or discrimination, you may contact ASU’s Title IX Coordinator:

Michelle Boone  
Director of Title IX Compliance  
325-486-6357  
michelle.boone@angelo.edu

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. The full details can be found in ASU Operating Policy OP 10.19 Observance of Religious Holy Days.

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.
Student Conduct Policies

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 Statement of Academic Integrity

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

Copyright Policy

Students officially enrolled in this course should make only one printed copy of the given articles and/or chapters. You are expressly prohibited from distributing or reproducing any portion of course readings in printed or electronic form without written permission from the copyright holders or publishers.

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
- In the event that the university is closed for a scheduled class time, whatever was scheduled for that day and/or whatever was due that day will be scheduled and/or due on the next scheduled class time.
- All electronic correspondence will be sent to your ASU e-mail account unless other arrangements are made.
- Feel free to come by my office at any time for help. I will definitely be near my office during my office hours (or there will be a note telling you when I will be back). If my office hours are not convenient for you, meet with me to arrange for another time that is more convenient.

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i Observance of Religious Holy Days: http://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of
ii Grading Procedures: http://www.angelo.edu/content/files/14197-op-1011-grading-procedures
iii Academic Integrity: http://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
iv ASU Writing Center: http://www.angelo.edu/dept/writing_center/academic_honesty.php
vvi University Catalog: http://www.angelo.edu/catalogs/