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: MCS219F Phone #: 325-486-5438 email: juan.montemayor@angelo.edu

Notice:
You are encouraged to be in attendance during each class meeting. No make-ups will be given for missed quizzes or homework assignment. You will not be allowed to make-up any missed exam. It does not matter whether you have an excused or unexcused absence. If you are late to class or leave early, you may be counted absent for the day. Student must attend the entire period to be counted present. In the event that an exam is missed and a written excuse is given within a reasonable time that is acceptable to instructor, the student will be given the option of taking a comprehensive final exam to replace missed exam. The comprehensive exam will count as the missed exam and the final exam. A second missed exam will be automatically entered as a zero.

Use of cell phone in class is strongly discouraged. You are encouraged to put cell phone away when entering classroom. If you have a cell phone out of your pocket/backpack/purse during class lecture or reach and touch into your pocket or purse, you will be considered as making use of cell phone. If such an event occurs, you will be asked to leave the classroom. Disruptions of class lecture will be dealt in the same manner. Personal situations may require you to have cell phone available in case of emergencies – notify instructor of that possibility. Other class rules will be discussed on the first day of class.

<table>
<thead>
<tr>
<th>Monday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 – 10:00 AM</td>
<td>9:00 – 10:00 AM</td>
<td>12:30 – 1:00 PM</td>
<td>12:30 – 1:00 PM</td>
<td>9:00 – 10:00 AM</td>
<td>12:30 – 1:00 PM</td>
<td>12:30 – 1:00 PM</td>
<td>8:30 – 10:00 AM</td>
<td></td>
</tr>
<tr>
<td>12:30 – 1:00 PM</td>
<td>12:30 – 1:00 PM</td>
<td>2:00 – 3:00 PM</td>
<td>2:00 – 3:00 PM</td>
<td>3:00 – 4:00 PM</td>
<td>3:00 – 4:00 PM</td>
<td>2:00 – 3:00 PM</td>
<td>12:30 – 1:00 PM</td>
<td></td>
</tr>
<tr>
<td>3:00 – 4:00 PM</td>
<td>3:00 – 4:00 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Exam 1 Sept. 21</td>
<td>Exam 2 Oct. 17</td>
<td>Midterm Exam</td>
<td>Exam 3 Nov. 9</td>
<td>Exam 4(Final Exam)</td>
<td>Tuesday Dec. 12@8:00 – 9:15 AM</td>
<td></td>
</tr>
</tbody>
</table>

Tentative exam dates

Daily grades consisting of quizzes, homework, and class participation will be part of test grades. More discussion about this on first day of class.

There are four testing periods during the semester. A grade will be earned for each testing period and your semester grade will be obtained by averaging the grades earned for each of the six testing periods.

Last Day to Drop: Friday November 3

Holidays and Breaks
Monday Sept. 4 and Wednesday – Friday Nov. 22 – 24

Textbook

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

You will not need an access code to do online homework

<table>
<thead>
<tr>
<th>Monday – Thursday</th>
<th>Monday – Thursday</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00am-8:00pm</td>
<td>9:00am-8:00pm</td>
</tr>
</tbody>
</table>

Math Lab Hours

<table>
<thead>
<tr>
<th>Friday</th>
<th>Friday</th>
<th>SUNDAY 4:00 PM – 8:00 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00am-12:00pm</td>
<td>9:00am-12:00pm</td>
<td>(Starting Sunday, September 10th)</td>
</tr>
</tbody>
</table>

Math Lab is located on the third floor of the library room C302
Exams
You will have a total of four exams during the semester. **It is up to the discretion of the instructor** whether final exam grade will replace a single missed exam. A second missed exam will be recorded as a grade of zero. Your midterm and final exams are comprehensive. Final Exam and Midterm Exam are comprehensive and not optional. Date and time for final exam is not negotiable. You have more than a fifteen-week notice of when the final exam is scheduled.

<table>
<thead>
<tr>
<th>You will have four testing periods, with each testing period worth 1/4 of your semester grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each of the testing periods will consist of</td>
</tr>
<tr>
<td>1) A <strong>major exam</strong> – makes up 88% of testing period grade</td>
</tr>
<tr>
<td>2) <strong>Daily grade</strong></td>
</tr>
<tr>
<td>Consists of a daily homework grade, a daily quiz grades, and class participation grade</td>
</tr>
<tr>
<td>12% of testing period grade (midterm and final exam do not have a daily grade)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Major exams</th>
<th>Use quizzes and chapter tests to study for major exams. No make-ups on exams.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily grades</td>
<td>Daily grades will be given on an almost daily basis. There will be six grades per testing period. I will drop lowest and average the remaining five grades. This average will be your daily grade for the testing period.</td>
</tr>
</tbody>
</table>

Each daily grade is made up of a daily homework grade, a daily quiz grade, and a grade for class participation.

<table>
<thead>
<tr>
<th>Homework</th>
<th>Quiz</th>
<th>Class participation grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>- 40% of daily grade</td>
<td>- 40% of daily grade</td>
<td>- 20% of daily grade</td>
</tr>
</tbody>
</table>

Class participation grade is left up to the discretion of the instructor but attendance and work in class are the major components of this part of grade. Your semester average will be computed by averaging the four scores from each of the four testing periods. Further explanation of grading procedure will be given on the first day of class.

<table>
<thead>
<tr>
<th>Last Day to Drop is Friday</th>
<th>Final Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 3</td>
<td>Tuesday Dec. 12 @ 8:00 – 10:30</td>
</tr>
</tbody>
</table>

More explanation on grading of homework, quizzes and class participation will be given in class.

**Standard Grading for this class**
An average of

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

Miscellaneous
1. You are encouraged to collaborate on your homework assignments with other classmates, but each student must turn in his or her own homework.

2. **Calculators are not allowed on quizzes or tests.**
   All answers must be non-calculator based – exact solutions are required.
   Algebraic work must be shown. No cell phones may be used at any time.

3. **See instructor for additional information on course rules, assignments, and other procedures.**

4. **Internet/Email:**
   I plan to post assignments and other documents on Blackboard and send you information via email.
   **All current students are required to maintain an @angelo.edu e-mail account** (see ASU Electronic Communication Policy [http://www.angelo.edu/services/technology/it_policies/ecomm_policy.html]).
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>
</tr>
</thead>
</table>
| 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; |
| 3    | Section 0.5 finish polynomials and polynomial operations  
Section 0.6 factoring polynomials;  
Section 0.7 algebraic fractions. |
| 4    | Section 1.1 linear equations and inequalities in one variable  
Sections 1.2 and 1.3 functions and linear functions  
Exam 1 |
| 5    | Section 1.5 Solutions of systems of linear equations  
Section 1.6 Applications of functions in Business and Economics |
| 6    | Section 2.1 Quadratic Equations  
Section 2.2 Quadratic Functions – parabolas |
| 7    | Section 3.1 Matrices and multiplications of matrices  
Catch up on material |
| 8    | Midterm Exam  
October 17  
Section 3.3 Gauss–Jordan Elimination method  
Section 5.1 Exponential Functions |
| 9    | Section 5.2 Logarithmic functions and their properties  
Section 5.3 Equations and applications with Exponential and Logarithmic functions |
| 10   | Section 6.1 Simple Interest and sequences  
Section 6.2 Compound Interest and geometric sequences |
| 11   | Sections 6.3, 6.4, and 6.5 Annuities and Loans and amortization  
Exam 3 |
| 12   | Finish chapter 6 and catch up day |
| 13   | Sections on chapter 7 |
| 14   | Section on chapter 7 |
| 15   | Finish chapter 7  
Catch up on material and review for final exam |
| 16   | Final exam  
Tuesday Dec. 12 @ 8:00 – 10:00 |
Syllabus Statements

- **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.  
  (http://www.angelo.edu/opmanual/ -- OP 10.19)

- **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 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.  
  (http://www.angelo.edu/opmanual/ -- OP 10.19)
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 to 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

Academic Honor Code

Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code, which is available on the web at http://www.angelo.edu/forms/pdf/honorcode5.pdf.