Math 1324.030 Finite Math I
Fall 2021

Syllabus Statement:

PDFs posted in Blackboard for this course are intended for print purposes only. If you
use assistive technology to complete your coursework, an alternative format may better
meet your needs. Please contact your instructor to obtain an alternative format and to
discuss appropriate software or other accommodations for the best student experience.

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

Office Hours: MWF: 9:00-10:00AM, 12:00-2:00 PM, 3:00-3:30 PM  TTh: 10:15-11:00 AM

Course Information

Course Description
A review of basic algebraic terminology and concepts involving real numbers and their
properties. Sets will also be part of the material discussed in this class. We will review
ideas of polynomials including terminology, factoring, and uses in solving equations and
working with complex polynomial fractions. We will look at solving linear and quadratic
equations as well as functions such as but not limited to linear, quadratic, exponential,
and logarithmic. Systems of equations will also be included in some of the class
lectures. We will finish with a brief view of matrices, some basic probability topics, topics
in finance such as simple interest, regular compounding, continuous compounding, and
also ideas involving present and future value of ordinary annuities. For a complete
description see course content.
Prerequisite Skills
You should have basic arithmetic skills that allow you to perform calculations with and without the use of a calculator. You should be able to follow written and oral/verbal instructions. Some basic use of computer technology. You should have above average knowledge of basic arithmetic and have the ability to memorize terminology, definitions, and mathematical techniques. It would be useful to have a desire to learn and relearn topics of interest such as those listed in the course content (course description).

Other Prerequisite Skills
Be able to access Internet websites, use ASU Library resources as needed, and have some proficiency with Microsoft Word, and the ability, curiosity, and desire to learn more. Make sure to become familiar with blackboard – site, class page and all of the links. Be able to scan and submit documents through blackboard – if not able to, learn within the first week of the semester. Although we do not make as much use of the calculator as you would like, make sure you are able to use simple non-graphing calculators. If you do happen to have graphing calculators – use it to check your homework problems. Not allowed on quizzes or exams]. Be able to follow directions such as how and where the math lab is located – same for your professor’s office (all professors). Understand the instructor’s definition of studying – not the day before an exam, but studying throughout the semester.

Course Content
Textbook: No textbook required but if you feel comfortable using a textbook, the following textbook can be used
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.
Student Learning Outcomes
Upon completion of this course

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.

6. 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 online components. Students are expected to have access to Blackboard. From time to time, the class lecture – including completed notes – will be recorded and published to make available to those unable to attend class. No guarantee of this happening or of the quality of the recording. Not being in class will be considered being absent from class.

Required Texts and Materials- Textbook is not required but the following text can be used

Textbook: Excursions in Modern Mathematics 9th ed. by Peter Tannenbaum, Prentice Hall
My notes will be sufficient for both in class notes and homework assignments. There are cases in which you will be required to print assignments (notes, quizzes – tests – homework). You may print both notes and assignments as needed. If you feel that you need additional help, you may find it in the following textbook or some other internet site of your choosing.
Technology Requirements

To successfully complete this course, students need to be able to access blackboard collaborate – be able to scan and submit documents through software in a PDF format. Calculators will not be allowed on quizzes or exams – use on HW to check answers – do not use calculators to provide an answer - Answers must always be non-calculator based. You may need an app to submit quizzes at the end of class sessions. You may have to submit documents back to me (quizzes and tests) and that will require use of your phone. There will be a learning curve so do not panic. You will learn faster than I. Let me know as soon as possible if you will be having trouble doing any of this. A printer and/or a scanner will be useful. I am not requiring you to have a printer – but you will need to be able to scan documents. There are apps that can be used for scanning. All submitted documents must be submitted as PDF documents. Be prepared in an emergency to go online – not likely but possible. I am not using Top Hat but if you have other classes that use it and you have the knowledge to use it, then feel free to use it in this class.

Communication

Use your Angelo State email address for communications between you and I. Include your name and class(section or time class meets ). No assignment will be taken after due date and time. Be prepared – do not wait till the last minute – give yourself at least 10 minutes of leeway. No excuse will be accepted for being late or not being able to turn in assignment on time. Do not send your assignment via email unless I tell you to do so. We do not keep the same working hours. Keep that in mind when you send an email at 2:00 AM. The instructor will try to respond to emails and/or telephone messages within 24 hours during working hours Monday through Friday. In the event you do not hear from me, please send me a second and even a third message. I will not be ignoring you but I may be swamped with information – information overload and your email may have gotten lost in the pile. Weekend messages may not be returned until Monday. Email courtesy – if you send me an email with a question - wait at least 60 seconds for a possible response.

Virtual Office hours held on Blackboard Collaborate will have a link available for you to join me. An email request is strongly suggested during times that I am in the office – if I am already in class, I will be unable to read your message.
Grading

Evaluation and Grades

Course grades will be determined as indicated in the table below. See Calendar on Blackboard course ( for this class ) to see dates for exams and due dates for other assignments ( Homework/Quizzes )

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percent of Total Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes / in class on time only</td>
<td>8 %</td>
</tr>
<tr>
<td>Homework Assignments – 0 if late</td>
<td>12 %</td>
</tr>
<tr>
<td>Exams</td>
<td>80 %</td>
</tr>
<tr>
<td>Bonus points – up to instructor – may be given at any time for any reason on a specified assignment (minimal number of points)</td>
<td>Up to instructor as to how many points</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

For a list of topics to be discussed in class – see page 2 under Course Content

Grading System

Course grades will depend on completing course requirements and meeting the student learning outcomes.

This course uses the following grading scale:

- 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
Assignments will be turned in on time (no late papers accepted / no makeup assignment given).
Exams will be given in class and turned in as given. Quizzes and homework will be
turned in through blackboard as PDF documents.
Scan the document (this does not mean to take a picture – a picture may be part of the
process – you are scanning), save the document in PDF format on your computer – or
however your phone stores it, submit through blackboard as a PDF document (no other
way).
No late work will be accepted. There is no reason to miss an assignment and I will drop
enough homework assignments and quizzes to account for missing one or two of them.
In the event that you have a good reason and the instructor accepts your reason for
missing one single exam, the final exam may replace the grade of missed exam..

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:

Dr. 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
Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. In accordance with Title VII, Title IX, the Violence Against Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex.

You are encouraged to report any incidents involving sexual misconduct to the Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator, Michelle Miller, J.D. You may submit reports in the following manner:

Online: Incident Reporting Form\textsuperscript{10}
Face to Face: Mayer Administration Building, Room 210
Phone: 325-942-2022
Email: michelle.miller@angelo.edu

Note, as a faculty member at Angelo State, I am a mandatory reporter and must report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325-942-2371), the 24-Hour Crisis Helpline (325-486-6345), or the University Health Clinic (325-942-2171).

For more information about resources related to sexual misconduct, Title IX, or Angelo State’s policy please visit the Title IX website.\textsuperscript{11}

Information About COVID-19
Please refer to ASU’s COVID-19 (Coronavirus) Updates\textsuperscript{12} web page for current information about campus guidelines and safety standards as they relate to the COVID-19 pandemic.
Modifications to the Syllabus

This syllabus, including grade evaluation and course schedule, is subject to modification on potentially short notice based on developing circumstances.

Course Schedule – to be updated during semester will include topics listed under course description on page 2 and 3 of this syllabus. Schedule of exams, and due dates for quizzes and exams can be seen on class calendar posted on the blackboard course.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic or Module</th>
<th>Activities</th>
<th>Homework</th>
<th>Homework Due Date</th>
</tr>
</thead>
</table>

1. [blackboard.angelo.edu](https://blackboard.angelo.edu/)
2. [www.angelo.edu/current-students/student-handbook/](https://www.angelo.edu/current-students/student-handbook/)
3. [www.angelo.edu/academics/catalog/](https://www.angelo.edu/academics/catalog/)
5. [www.angelo.edu/current-students/disability-services/](https://www.angelo.edu/current-students/disability-services/)
6. [www.angelo.edu/content/files/14197-op-1011-grading-procedures](https://www.angelo.edu/content/files/14197-op-1011-grading-procedures)
8. [www.angelo.edu/current-students/writing-center/academic_honesty.php](https://www.angelo.edu/current-students/writing-center/academic_honesty.php)
9. [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)
10. [www.angelo.edu/incident-form](https://www.angelo.edu/incident-form)
11. [www.angelo.edu/title-ix](https://www.angelo.edu/title-ix)
12. [www.angelo.edu/covid-19/](https://www.angelo.edu/covid-19/)