MATH 1324 Finite Mathematics
Mathematics Department
Wayne Humphrey
Office: MCS 205K/Phone: 325-486-5419
Email: travis.humphrey@angelo.edu
Section 10, MTWHF 10:00 am – 11:45 am

Office Hours:

<table>
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<th>Day</th>
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<tr>
<td>Monday</td>
<td>12:00 PM -1:00 PM</td>
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<td>Tuesday</td>
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<td>Friday</td>
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Required Text/Software:
*Mathematical Applications*, 11th Ed., by Harshbarger. You may purchase a physical copy of this textbook bundled with an access code for WebAssign® ISBN: 9781285921563. Or you may purchase only the access code through WebAssign® (includes the eBook).

WebAssign®:
Registration in the online instructional system WebAssign® is required. You will need access to complete class homework, quizzes, and reviews. You will also have access to the eBook and excellent review materials. WebAssign® is available 24/7 over the internet at www.webassign.net. The customer support number for WebAssign® is 800.955.8275. We recommend using Chrome or Firefox to access WebAssign®. WebAssign® Class Key: angelo 5483 7769

Blackboard®:
We will be using ASU’s classroom management system Blackboard®. Class handouts and other important class announcements will be posted there. Blackboard® can be accessed through RamPort or by visiting http://blackboard.angelo.edu.

Grading Policy:
- Homework: Homework will be assigned at the end of every lesson. You are expected to complete all homework problems in WebAssign. Homework will count 15% of your overall grade.
- Quizzes: 4 quizzes(Exam Reviews) will be given online in webassign. Quizzes will count 10% of your overall grade.
- Exams: Four exams will be given. Tests will count 60% of your overall grade.
- Final Exam: A comprehensive final exam will be given Wednesday 7/3/2019 10:15 am-12:15 pm. The final exam will count 15% of your overall grade.
- All grades will be posted in WebAssign as they are graded. Your overall average will be available in the WebAssign grade book. Final grades will be posted in RamPort at the end of the semester.
Learning Material: Note taking devices are strongly encouraged. A spiral notebook is recommended. Calculators are permitted, but they must be non-graphing scientific calculators.

Attendance: Attendance will be taken regularly. Please inform me of any absences prior to the absence whenever possible.

Student Responsibilities: The student is solely responsible for:

- Maintaining academic honesty. 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.
- 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.

Study Aids:

- The Math Lab offers to all students enrolled in mathematics courses through Calculus an opportunity to obtain free math help. The Math Lab is located on the 3rd floor of the library (C302), and its times are listed below. The Sunday sessions begin on September 10th. Monday – Thursday: 9:00 a.m. - 9:00 p.m. Friday: 9:00 a.m. - 1:00 p.m. Sunday: 4:00 pm - 8:00 p.m.
- The Department of Mathematics maintains a list of students who are interested in tutoring privately. Students who are interested in obtaining private tutoring or serving as private tutors should visit the department office for more information.
- 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.

Notes:

- 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/](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](http://www.angelo.edu/opmanual/) 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](http://www.angelo.edu/opmanual/)

**Plagiarism**

Plagiarism is a serious topic covered in ASU’s [Academic Integrity policy](http://www.angelo.edu/opmanual/) 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.

**Electronic Devices in Classrooms:**

The classroom is a learning laboratory, which must be free from interruption or interference. As a result, all electronic devices capable of generating noise such as cellular phones, pagers, palm pilots, beeper watches, etc., are considered a distraction to the learning process and will be turned off prior to entering the classroom. Such devices will also be kept out of sight and not accessed during the class period.

The student will not interact with these devices at any time during classroom instruction.

The instructor will warn a student who fails to comply with this policy one time. The student, upon the warning by the instructor, will take immediate corrective action. In the event the student fails to comply with the Instructor’s request, the student will be dismissed from class and at the Instructor’s discretion, may be counted absent or have points deducted for work missed, if appropriate.

A student who has an unauthorized electronic device activated during an examination period will not be permitted to continue the examination, will be asked to leave the classroom and will be denied the opportunity to complete or re-take the examination. Due to the circumstance, the Instructor may question the validity of any portion of the examination completed prior to the violation and may elect not to grade the examination. In such a situation, the student will not receive credit for the examination and will not be permitted to make up the missed examination.

**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

All items contained in this syllabus are subject to change as the semester progresses. Students will be notified in advance of any changes.

**Math 1324 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.

Math 1324 Course Content

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.
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