MATH 1324 – D10 – Finite Mathematics – Fall 2019

Contact Information:

- Instructor: Jesse Taylor
- Office: MCS 219E
- Email: jesse.taylor@angelo.edu
- Our Classroom: Online (MCS 212 for tests)
- Meeting Times: Online (Thursday 5:30-7:00 for tests)
- Office Hours:
  - Monday: 12:30-2:30
  - Tuesday: 10:30-12:30
  - Wednesday: 1:30-3:30
  - Thursday: 10:30-12:30
  - Friday: by appointment
  - If the above times do not work please email me to set up another time to meet

Required Textbook

*Finite Mathematics with Applications*, twelfth edition, by Lial, Hungerford, Holcomb, and Mullins, with MyMathLab access.

Course Content

Selected sections from chapters 1-6 and 8 will be covered.

Homework

All homework in this class will be done online with MyMathLab. To register, go to www.mymathlab.com and click the button “Student” button under the heading “Register Now” on the right side of the screen. You must register using your ASU email account. The course ID for our class is taylor55776.

You will also need an access code, which should have come with your textbook. If you do not have an access code, you can purchase one online through the MyMathLab website. We will have homework assignments from each section covered in the textbook.

Please do not wait until the last minute to complete your homework assignments. Technology-based systems are sometimes unavailable and no late homework will be accepted. In general, homework will be due on Mondays, Wednesdays, and Fridays by 11:59pm.

Blackboard

All the instructional material for our course can be found in Blackboard and through MyMathLab. You will need to use both these resources and the textbook for every section we cover. Make sure you read the instructions in Blackboard for each section before you begin studying that section. All the general information about our course can be found here in the syllabus and on Blackboard.

Tests

We will have three tests and a cumulative final exam. Although the course is an online course, all our exams will be taken in person in MCS 212 on the campus of Angelo State University.

Below is a table
containing a schedule for the tests. If you have a conflict with one of the tests you must let me know at least one week before the test is taken to ensure that you receive a make-up exam. The earlier you let me know, the better.

<table>
<thead>
<tr>
<th>Test</th>
<th>Material Covered</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>Chapters 1 and 2</td>
<td>September 19, 5:30-7:00pm</td>
</tr>
<tr>
<td>Test 2</td>
<td>Chapters 3, 4, and 5</td>
<td>October 24, 5:30-7:00pm</td>
</tr>
<tr>
<td>Test 3</td>
<td>Chapters 6 and 8</td>
<td>November 21, 5:30-7:00pm</td>
</tr>
<tr>
<td>Final Exam</td>
<td>Cumulative</td>
<td>6:00-8:00pm, Thursday Dec 12</td>
</tr>
</tbody>
</table>

**Grading**

Your grade in this class will be determined based on the following grading rubric.

- Homework: 20%
- Lowest test: 15%
- Other two tests: 20% each
- Final Exam: 25%

Your final letter grade in this class will be determined based on a ten-point grading scale.

**Calculator**

You are allowed a scientific calculator on our exams and you will definitely need a calculator for the third exam and the final exam. However, you may not use a graphing calculator (for example a TI-83 or higher). The calculator I recommend is the Texas Instruments TI-30X IIS scientific calculator as it is inexpensive and robust, however you may use any non-graphing calculator.

**Technology**

Unless you have special accommodations documented with the Student Life office, no cell phones, tablets, laptops, games, or other electronic devices may used at any time during class or our tests.

**Study Aids**

- The Math Lab offers free math help to all students enrolled in mathematics courses at or below the level of Calculus. The Math Lab is located on the third floor of the library (C302) and its times are listed below.
  - Monday – Thursday: 9:00am – 8:00pm
  - Friday: 9:00am – 12:00pm
  - Sunday: 4:00pm – 8:00pm
- The mathematics department 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 math department’s office for more information.
- Feel free to come by my office for help. I will be in or near my office during office hours (or there will be a note telling you when I will be back). If my office hours are not convenient for you, email me or speak with me during class to arrange another time that is more convenient.
Notes

- If the university is unexpectedly 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 day.
- All electronic correspondence will be sent to your ASU email account unless other arrangements are made.
- Good luck. I want you to succeed in this course. If at any point during the semester you feel as if you do not understand the material, please come talk with me as soon as possible. An ounce of prevention is worth a pound of cure.
- All items and dates in this syllabus are subject to change as the semester progresses. Students will be notified in class of any changes, and the changes will not be updated within this syllabus.

Mathematics 1324 – Finite Mathematics I

1. **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 exponents, factoring, linear and quadratic equations, number systems, functions, polynomials, logarithms, matrices, mathematics of finance, set theory, and basic probability.

2. **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. **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. **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.

Textbook


Course Content

The following chapters including the particular sections listed are covered.

1. **Algebra and Equations.** The real numbers; polynomials; factoring; rational expressions; exponents and radicals; first-degree equations; quadratic equations.

2. **Graphs, Lines, and Inequalities.** Graphs; functions; equations of lines; linear inequalities.
3. **Functions and Graphs.** Functions; graphs of functions; applications of linear functions; quadratic functions and applications.

4. **Exponential and Logarithmic Functions.** Exponential functions; logarithmic functions; logarithmic and exponential equations.

5. **Mathematics of Finance.** Simple interest; compound interest; annuities, future value, and sinking funds; annuities, present value, and amortization.

6. **Systems of Linear Equations.** Systems of two linear equations in two variables; larger systems of equations; basic matrix operations; matrix products and inverses.

8. **Sets and Probability.** Sets; introduction to probability; basic concepts of probability; conditional probability and independent events.

**Anticipated Schedule**

Below is a table containing an approximate guide to what we will cover during each week of the semester. These topics are subject to change.

<table>
<thead>
<tr>
<th>Course Week</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Section 1.1 and 1.2</td>
</tr>
<tr>
<td>2</td>
<td>Section 1.3, 1.4, and 1.5</td>
</tr>
<tr>
<td>3</td>
<td>Section 1.6 and 1.7</td>
</tr>
<tr>
<td>4</td>
<td>Section 2.1, 2.2, and Test 1</td>
</tr>
<tr>
<td>5</td>
<td>Section 2.4, 3.1, and 3.2</td>
</tr>
<tr>
<td>6</td>
<td>Section 3.3 and 3.4</td>
</tr>
<tr>
<td>7</td>
<td>Section 4.1, 4.3, and 4.4</td>
</tr>
<tr>
<td>8</td>
<td>Section 5.1, 5.2, and 5.3</td>
</tr>
<tr>
<td>9</td>
<td>Section 5.4 and Test 2</td>
</tr>
<tr>
<td>10</td>
<td>Section 6.1 and 6.2</td>
</tr>
<tr>
<td>11</td>
<td>Section 6.4 and 6.5</td>
</tr>
<tr>
<td>12</td>
<td>Section 8.1 and 8.3</td>
</tr>
<tr>
<td>13</td>
<td>Section 8.4 and Test 3</td>
</tr>
<tr>
<td>14</td>
<td>8.5 and Thanksgiving break</td>
</tr>
<tr>
<td>15</td>
<td>Study period for the final exam</td>
</tr>
<tr>
<td>16</td>
<td>Final exam</td>
</tr>
</tbody>
</table>

**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 [Observerance 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 Centeriv.

**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 Handbookv
  - Angelo State University Catalogvi

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1 Observance of Religious Holy Days: [http://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of](http://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of)
2 Grading Procedures: [http://www.angelo.edu/content/files/14197-op-1011-grading-procedures](http://www.angelo.edu/content/files/14197-op-1011-grading-procedures)
4 ASU Writing Center: [http://www.angelo.edu/dept/writing_center/academic_honesty.php](http://www.angelo.edu/dept/writing_center/academic_honesty.php)
6 University Catalog: [http://www.angelo.edu/catalogs/](http://www.angelo.edu/catalogs/)