MATH 1324: Finite Mathematics I, Spring 2020

Contact Information
Instructor: Ashlee Fuchs
Office: MCS 220E
Office Phone: (325) 486-5433
e-mail: Ashlee.Fuchs@angelo.edu

Open Office Hours:
Monday: 9:00am – 10:00am; 11:00am – 12:00pm; 2:00pm – 3:00pm
Tuesday: 2:00pm – 3:30pm (in the Math Lab – Lib 330)
Wednesday: 9:00am – 10:00am; 11:00am – 12:00pm; 2:00pm – 3:30pm
Friday: 9:00am – 10:00am; 11:00am – 12:00pm
or by appointment

Textbook

Blackboard
This course has an associated Blackboard page where you will have access to grades, assignments, videos, handouts, and other course-related items.

Course Content
Selected sections from Chapters 1 – 6, and 8 will be studied.

Grading System
The final average will be determined according to the weights in the table that follows.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam I</td>
<td>Thursday, 02/06</td>
<td>20%</td>
</tr>
<tr>
<td>Exam II</td>
<td>Thursday, 03/05</td>
<td>20%</td>
</tr>
<tr>
<td>Exam III</td>
<td>Thursday, 04/16</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>Thursday, 05/07</td>
<td>25%</td>
</tr>
<tr>
<td>Homework</td>
<td>Most Days</td>
<td>15%</td>
</tr>
</tbody>
</table>

Grading Policy
To determine the average needed to ensure that you obtain the grade that you want in this course, consult the table that follows.

<table>
<thead>
<tr>
<th>Average</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>89.5 and above</td>
<td>A</td>
</tr>
<tr>
<td>79.5 to 89.5</td>
<td>B</td>
</tr>
<tr>
<td>69.5 to 79.5</td>
<td>C</td>
</tr>
<tr>
<td>59.5 to 69.5</td>
<td>D</td>
</tr>
<tr>
<td>below 59.5</td>
<td>F</td>
</tr>
</tbody>
</table>
Homework Policy
This course will use a free online homework system called MyOpenMath. You will be able to access your online homework assignments through Blackboard. If you have trouble completing a homework assignment, please see me for assistance before it is due.

Quizzes
There will be a one question quiz given during each class meeting. This will be an extra credit opportunity to earn bonus points for each exam.

Exams
There will be three mid-semester exams scheduled as shown above, which will account for 60% of your final grade. Each mid-semester exam will account for 20% of your final grade. In addition to these exams, there will be a comprehensive Final Exam on Tuesday, May 5th from 10:30 a.m. – 12:30 p.m. The Final Exam will account for 25% of your final grade.

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

Drop Date
Thursday, March 26, 2020 is the last day to drop a course with a W or withdraw from ASU.

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, visiting the Math Lab, 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 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. The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance. This is done in order to connect students with resources and options in addressing the allegations reported. As a student, are encouraged to report any incidents of sexual misconduct directly to ASU’s Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator. You may do so by contacting:

Michelle Boone, J.D.
Director of Title IX Compliance/Title IX Coordinator
Mayer Administration Building, Room 210
325-942-2022
michelle.boone@angelo.edu

You may also file a report online 24/7 at www.angelo.edu/incident-form.

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

The Office of Title IX Compliance also provides accommodations related to pregnancy (such as communicating with your professors regarding medically necessary absences, modifications required because of pregnancy, etc.). If you are pregnant and need assistance or accommodations, please contact the Office of Title IX Compliance utilizing the information above.

For more information about Title IX in general you may visit www.angelo.edu/title-ix.

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 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

- 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.

- Good luck. I sincerely hope you do well in this course, and I strongly encourage you to use me as a resource outside of class to help you succeed.
Student Learning Outcomes

1. **Students will demonstrate factual knowledge of mathematical notation and terminology used in this course.** Students will read, interpret, and use the vocabulary, symbolism, and basic definitions used in trigonometry including definitions of the six trigonometric functions; types of angle measure and notation; equations of conic sections; representing equations in polar coordinates; and the definition of vectors.

2. **Students will be able to describe the fundamental principles including the laws and theorems arising from the concepts covered in this course.** Students will identify and apply the laws and formulas that result directly from the definitions; for example, the fundamental identities, properties of angles and triangles, characteristics of the trigonometric functions, inverse trigonometric functions, polar equations (including graphs), and formulas for converting between polar and rectangular coordinates.

3. **Students will apply course material along with techniques and procedures covered in this course to solve problems.** Students will use the facts, formulas, and techniques learned in this course to prove identities and solve trigonometric equations; and solve various types of triangle problems, distance and navigation problems, and linear and angular velocity problems.

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 further study in academic areas requiring trigonometry as a prerequisite, or for work in occupational fields requiring a background in trigonometry. These fields might include education, business, finance, marketing, computer science, physical sciences, and engineering, as well as mathematics.

**Textbook**


**Course Content**

Content consists of the following topics, listed according to the corresponding chapters in the text. (See textbook “Contents.”)

1. **Algebra and Equations.** Real Numbers, Polynomials, Factoring, Rational Expressions, Exponents and Radicals, First-Degree Equations, Quadratic Equations.


3. **Functions and Graphs.** Functions, Graphs of Functions, Applications of Linear and Quadratic Functions.

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.


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

The table below indicates the expected sections that will be discussed on the date listed.

<table>
<thead>
<tr>
<th>Day</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>T, 01/14</td>
<td>Syllabus, 1.1</td>
</tr>
<tr>
<td>R, 01/16</td>
<td>1.2</td>
</tr>
<tr>
<td>T, 01/21</td>
<td>1.3</td>
</tr>
<tr>
<td>R, 01/23</td>
<td>1.3, 1.4</td>
</tr>
<tr>
<td>T, 01/28</td>
<td>1.5</td>
</tr>
<tr>
<td>R, 01/30</td>
<td>1.6, 1.7</td>
</tr>
<tr>
<td>T, 02/04</td>
<td>Review</td>
</tr>
<tr>
<td>R, 02/06</td>
<td>Exam I</td>
</tr>
<tr>
<td>T, 02/11</td>
<td>1.7</td>
</tr>
<tr>
<td>R, 02/13</td>
<td>2.1</td>
</tr>
<tr>
<td>T, 02/18</td>
<td>2.1, 2.2</td>
</tr>
<tr>
<td>R, 02/20</td>
<td>2.4</td>
</tr>
<tr>
<td>T, 02/25</td>
<td>3.1, 3.2</td>
</tr>
<tr>
<td>R, 02/27</td>
<td>3.3, 3.4</td>
</tr>
<tr>
<td>T, 03/03</td>
<td>Review</td>
</tr>
<tr>
<td>R, 03/05</td>
<td>Exam II</td>
</tr>
<tr>
<td>T, 03/17</td>
<td>4.1</td>
</tr>
<tr>
<td>R, 03/19</td>
<td>4.3</td>
</tr>
<tr>
<td>T, 03/24</td>
<td>4.4</td>
</tr>
<tr>
<td>R, 03/26</td>
<td>5.1, 5.2</td>
</tr>
<tr>
<td>T, 03/31</td>
<td>5.3</td>
</tr>
<tr>
<td>R, 04/02</td>
<td>5.3, 5.4</td>
</tr>
<tr>
<td>T, 04/07</td>
<td>5.4</td>
</tr>
<tr>
<td>R, 04/09</td>
<td>6.1, 6.3</td>
</tr>
<tr>
<td>T, 04/14</td>
<td>Review</td>
</tr>
<tr>
<td>R, 04/16</td>
<td>Exam III</td>
</tr>
<tr>
<td>T, 04/21</td>
<td>8.1, 8.3</td>
</tr>
<tr>
<td>R, 04/23</td>
<td>8.4</td>
</tr>
<tr>
<td>T, 04/28</td>
<td>8.5</td>
</tr>
<tr>
<td>R, 04/30</td>
<td>Cumulative Review</td>
</tr>
</tbody>
</table>

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1. Blackboard Link: [http://blackboard.angelo.edu](http://blackboard.angelo.edu)
2. Angelo State University Incident Form: [www.angelo.edu/incident-form](http://www.angelo.edu/incident-form)
3. Title IX at Angelo State University: [www.angelo.edu/title-ix](http://www.angelo.edu/title-ix)
5. Grading Procedures: [http://www.angelo.edu/content/files/14197-op-1011-grading-procedures](http://www.angelo.edu/content/files/14197-op-1011-grading-procedures)
7. ASU Writing Center: [http://www.angelo.edu/dept/writing_center/academic_honesty.php](http://www.angelo.edu/dept/writing_center/academic_honesty.php)