Math 1324- Finite Mathematics I- Fall 2018 Syllabus

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 Information

<table>
<thead>
<tr>
<th>Name: Mrs. Codi Jaynes</th>
<th>Office Hours: Monday &amp; Wednesday 8:30 - 9:45 am &amp; 1:15-2:00 pm</th>
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</thead>
<tbody>
<tr>
<td>Office: MCS 220C</td>
<td>Tuesday &amp; Thursday 8:30 – 10:45 am &amp; 1:15 – 2:00 pm</td>
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<tr>
<td>Phone: 325-486-5446</td>
<td>Friday 8:30 – 9:45 am</td>
</tr>
<tr>
<td>Email: <a href="mailto:codi.jaynes@angelo.edu">codi.jaynes@angelo.edu</a></td>
<td>or by appointment</td>
</tr>
</tbody>
</table>

This class meets TR 11:00-12:15 pm in MCS 214.

Math Lab: The Math Learning lab is available on campus that provide FREE math tutoring. Please utilize this great resource- no appointment is necessary.

- MATH LAB- LIB C302 (upstairs)
  - Monday – Thursday: 9:00 am – 8:00 pm
  - Friday: 9:00 am – 12:00 pm
  - Sunday: 4:00 pm – 8:00 pm

Blackboard/Email:

- I plan to post notes, test reviews, and other documents on Blackboard. I will expect you to print these documents and bring them with you to class when I tell you to. I will also post grades and other important announcements on Blackboard.
- Blackboard can be accessed through RamPort or by visiting http://blackboard.angelo.edu.
- I may send you information via email. It is your responsibility to regularly check your angelo.edu email account. All electronic correspondence will be sent to your ASU e-mail account unless other arrangements are made. I will do my best to respond to all emails by the next business day.

Lecture Notes: It is your responsibility to print the lecture notes from Blackboard and bring them to class each day. I strongly suggest keeping your notes and other class materials in a 3-ring binder.

Calculator: A scientific calculator is the only type of calculator that is allowed in this course. No graphing calculators are allowed. The scientific calculator that is highly recommended is the TI-30XIIS.

Attendance: Attendance will be taken daily and is mandatory for the entire class period. Excessive absences are reported to the administration and play a definite role in suspension considerations. Remember that I can teach you more in one hour than you can learn on your own in several hours. So, for your own sake, attend every class!!

Homework: Homework will be assigned over every section through WebAssign software. To set up your account, go to www.webassign.net. To set up an account, you will need the following information:

- A valid email address (I recommend you use your angelo.edu email)
- The course key: angelo 9055 4867
- Your student access code (purchased with your textbook or purchased directly from WebAssign)

You will need to pay for an access code. If you are unable to pay at the start of the semester, you may use the free 14-day trial. However, remember this free trial only lasts for 14 days! After that time, you will need to pay for the access code.

- Daily assignments will consist of homework problems completed on a computer-based system and worksheets/textbook problem sets.
If you are going to miss class, you can email me pictures of your paper assignments BEFORE CLASS STARTS on the day the assignment is due.

No late work will be accepted!

I will drop 3 homework/quiz grades at the end of the semester to help compensate for unavoidable circumstances.

Tests/Final Exam: We will have 3 tests and a final exam. The final exam will be cumulative. The exact dates and coverage of these tests will be announced in class; however, as a planning guide, you may expect to take the exams as noted in the table below. The final exam will be help as specified in the course schedule. There will be no make-up exams!! Therefore, if you miss an exam, the final exam will count twice, once for itself and once for the missing exam grade. If you leave the room during an exam, I may take your test and grade it AS IS!!

If you are not able to take your exam at the scheduled time, you need to speak with me IN PERSON at least 2 days (48 hours) before the scheduled test time. Communication via email is not sufficient, unless you are ill. If this is the case, you must send me an official doctor’s note stating that you cannot come take the exam before the scheduled test time. All decisions regarding changes in testing will be made at my discretion.

Approximate Exam dates are as follows: 9/27, 10/25, & 11/29. Exact exam dates and coverage of material will be announced in class and on Blackboard.

A comprehensive final exam will be Tuesday, December 11, 2018 from 10:30 am – 12:30 pm.

Grading: Grades will be roughly determined as follows:

- Homework & Quizzes- 15%
- Tests- 20 % each
- Final Exam- 25%

Final Grades: Final grades will be determined using the following scale

- A: 90% or above
- B: 80% - 89%
- C: 70% - 79%
- D: 60% - 69%
- F: Below 60%

Common Courtesy:

- Please turn off all cell phones or any other electronic devices before entering the classroom. Place these items in your backpacks. I do not want to see them on your desk or in your laps. THIS MEANS NO TEXTING DURING CLASS! I reserve the right to ask you to leave class if I catch you texting.
- Please refrain from carrying on personal conversations once class has started. Be courteous to your peers when they are responding in class by listening to what they have to say.
- You are not given a grade in a college course; you EARN your grade. It is your responsibility to put in as much effort as it takes to earn this grade. This includes utilizing (as needed) all available study aid options (my office hours, the Math Lab, reading outside texts, etc.) to resolve any questions or concerns you might have about any aspect of the course.

Drop Date: November 1st is the last day to drop a course with a W or withdraw from ASU.
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.

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, or send me an email, to arrange for another time that is more convenient.

University Policies:

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. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day for more information.
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 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.

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 course material along with techniques and procedures covered in this course to solve business related problems. Students will use the facts, formulas, and 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 electronic supplement WebAssign is also be required. 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.

3. **Matrices:** Matrices; multiplication of matrices; Gauss-Jordan elimination.

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 of Probability:** Probability; odds; union and intersection of events; conditional probability; probability trees.

**Subject Matter:** (tentative schedule- subject to change)

The subject matter schedule listed below is tentative, and subject to change and adaptation. For current, updated information about course topics, contact the instructor or see Blackboard.

Tentative Course Schedule

<table>
<thead>
<tr>
<th>Day</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Syllabus &amp; 0.3- Exponent Laws</td>
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<tr>
<td>2</td>
<td>0.3- Exponent Laws; 0.4- Simplifying Radicals</td>
</tr>
<tr>
<td>3</td>
<td>0.5- Polynomials; 0.6- Factoring</td>
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<tr>
<td>4</td>
<td>0.6- Factoring</td>
</tr>
<tr>
<td>5</td>
<td>0.7- Algebraic Fractions</td>
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<tr>
<td>6</td>
<td>1.1-Solving Linear Equations; 1.3- Linear Functions</td>
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<tr>
<td>7</td>
<td>1.3- Linear Functions; 1.5- Systems of Equations</td>
</tr>
<tr>
<td>8</td>
<td>1.5- Systems of Equations</td>
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<tr>
<td>9</td>
<td>1.6- Linear Applications; REVIEW</td>
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<tr>
<td>10</td>
<td>Exam 1</td>
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<tr>
<td>11</td>
<td>2.1- Quadratic Equations; 2.2- Parabolas</td>
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<tr>
<td>12</td>
<td>2.2- Parabolas; 2.3- Quadratic Applications</td>
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<tr>
<td>13</td>
<td>3.1- Matrices</td>
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<td>14</td>
<td>3.2- Matrix Multiplication</td>
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<td>15</td>
<td>3.3- Gauss-Jordan Elimination</td>
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<td>16</td>
<td>5.1- Exponential Functions; 5.2- Logarithmic Functions</td>
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<tr>
<td>17</td>
<td>REVIEW</td>
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<tr>
<td>18</td>
<td>Exam 2</td>
</tr>
<tr>
<td>19</td>
<td>6.1- Simple Interest; 6.2- Compound Interest</td>
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<td>Day</td>
<td>Topic</td>
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<tr>
<td>20</td>
<td>6.2- Compound Interest; 6.3- Future Value Annuities</td>
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<td>21</td>
<td>6.4- Present Value Annuities; 6.5- Loans &amp; Amortization</td>
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<tr>
<td>22</td>
<td>6.5- Loans &amp; Amortization; 0.1- Sets; Ch. 7- Probability</td>
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<tr>
<td>23</td>
<td>Ch. 7- Probability</td>
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<td>24</td>
<td>Ch. 7- Probability</td>
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<tr>
<td>25</td>
<td>Ch. 7- Probability</td>
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<tr>
<td>26</td>
<td>REVIEW</td>
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<tr>
<td>27</td>
<td>Exam 3</td>
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<tr>
<td>28</td>
<td>Final Exam Review</td>
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<tr>
<td>29</td>
<td>Final Exam Review</td>
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<tr>
<td>30</td>
<td>FINAL EXAM- Tuesday, December 11 from 10:30 am – 12:30 pm</td>
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</tbody>
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2. [http://www.angelo.edu/catalogs/](http://www.angelo.edu/catalogs/)
3. [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)
4. [http://www.angelo.edu/content/files/14197-op-1011-grading-procedures](http://www.angelo.edu/content/files/14197-op-1011-grading-procedures)