

# MATH 1332

## Introduction to Contemporary Mathematics

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**Instructor: Wayne Humphrey**

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Phone: 325-486-5419

Office: MCS 205H

**Office Hours: Online students can make an appointment via Blackboard Collaborate**

<i>Day</i>	<i>Time</i>
<b>Monday</b>	11:00 AM-1:30PM
<b>Tuesday</b>	12:30PM-2:30PM
<b>Wednesday</b>	11:00 AM-1:30PM
<b>Thursday</b>	12:30PM-2:30PM
<b>Friday</b>	11:00 AM-12:00PM

## Course Information

### Course Description

A survey of ideas in contemporary mathematics. Topics may include graphs and networks, theory of elections and apportionment, statistics, and mathematical models.

### Prerequisite:

Completion of Mathematics Texas Success Initiative (TSI) requirements.

## Course Delivery

This is an online course that will be delivered via [Blackboard](#).<sup>1</sup> If you choose, you can complete this course without visiting the ASU campus. Exams must be taken in a proctored environment.

## Required Texts and Materials

*Math in Society*, by David Lippman. <http://www.opentextbookstore.com/mathinsociety/>  
Access to Blackboard is required. All homework, handouts and tests will be administered through Blackboard.

## Technology Requirements

To successfully complete this course, students need to have access to a computer to log in to [Blackboard](#). Course videos, notes, homework, quizzes and other assignments will be posted in [Blackboard](#). A non-graphing, scientific calculator is STRONGLY recommended.

## Communication

Faculty will respond to email and/or telephone messages within 24 hours during working hours Monday through Friday. Weekend messages may not be returned until Monday. All office hours will be in Bb Collaborate. A link for office hours is posted in Blackboard.

## Grading

### Evaluation and Grades

Course grades will be determined as indicated below.

- Homework: Homework will be assigned at the end of every lesson. You are expected to complete all homework problems in Blackboard. Homework will count 20% of your overall grade.
- Quizzes: Eight quizzes will be taken online. These will count 20%
- Exams: Four exams will be given throughout the semester. These exam should be taken in a proctored setting.
- Final Exam: You will take exam 4 from above during the week of finals.
- All grades will be posted in Blackboard as they are graded. Your overall average will be available in the Blackboard grade book. Final grades will be posted in RamPort at the end of the semester.

### Grading System

Course grades will be dependent upon completing course requirements and meeting the student learning outcomes.

The following grading scale is in use for this course:

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

## 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](#)<sup>2</sup>
- [Angelo State University Catalog](#)<sup>3</sup>

### 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](#).<sup>4</sup>

### 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](mailto:ADA@angelo.edu). For more information about the application process and requirements, visit the [Student Disability Services website](#).<sup>5</sup> 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](mailto: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](#)<sup>6</sup> for more information.

## **Plagiarism**

Plagiarism is a serious topic covered in ASU's [Academic Integrity policy](#)<sup>7</sup> 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](#).<sup>8</sup>

## **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](#)<sup>9</sup> 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](#)<sup>10</sup>

Face to Face: Mayer Administration Building, Room 210

Phone: 325-942-2022

Email: [michelle.miller@angelo.edu](mailto: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](#).<sup>11</sup>

## Information About COVID-19

Please refer to ASU's [COVID-19 \(Coronavirus\) Updates](#)<sup>12</sup> 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

Week	Topic	Assignments	Due Date
1	Syllabus, Basic Elements of an Election	Read syllabus and email me any questions you may have, read Voting Theory section from text, watch video lesson, do problem set in Blackboard	24-Jan
2	Voting Methods, Weighted Voting, Banzhaf Power Ranking	Read section in text, watch videos, complete problem sets in Bb **Take Quiz 1**	31-Jan

3	Fair Division, Sealed Bids, Apportionment	Read section in text, watch videos, complete problem sets in Bb	7-Feb
4	Test 1	**Take Quiz 2** Test in Blackboard	14-Feb
5	Introduction to Graph Theory, Euler's Theorem and Fleury's Algorithm	Read section in text, watch videos, complete problem sets in Bb	21-Feb
6	Hamilton's Paths and Circuits, Brute Force Algorithm, Nearest Neighbor Algorithm	Read section in text, watch videos, complete problem sets in Bb **Take Quiz 3**	28-Feb
7	Networks, Trees, Spanning Trees, Kruskal's Algorithm	Read section in text, watch videos, complete problem sets in Bb	7-Mar
8	Test 2	**Take Quiz 4** Test in Blackboard	21-Mar
9	Simple interest, Compound interest	Read section in text, watch videos, complete problem sets in Bb	28-Mar
10	Future value of Ordinary annuities	Read section in text, watch videos, complete problem sets in Bb **Quiz 5**	4-Apr
11	Loan payments, amortization, Present Value of ordinary annuities	Read section in text, watch videos, complete problem sets in Bb	11-Apr
12	Test 3	**Quiz 6** Test in Blackboard	18-Apr
13	Introduction to Statistics: Frequency Tables, Graphs and Charts, Measures of Center, Measures of variance	Read section in text, watch videos, complete problem sets in Bb	25-Apr
14	Basic set Theory, Introduction to Probability	Read section in text, watch videos, complete problem sets in Bb **Quiz 8**	2-May
15	Test 4 (During Final Exams)	Test in Blackboard	9-May

<sup>1</sup> <https://blackboard.angelo.edu/>

<sup>2</sup> <https://www.angelo.edu/current-students/student-handbook/>

<sup>3</sup> <https://www.angelo.edu/academics/catalog/>

<sup>4</sup> <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=96>

<sup>5</sup> <https://www.angelo.edu/current-students/disability-services/>

<sup>6</sup> <https://www.angelo.edu/content/files/14197-op-1011-grading-procedures>

<sup>7</sup> <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=96>

<sup>8</sup> [https://www.angelo.edu/current-students/writing-center/academic\\_honesty.php](https://www.angelo.edu/current-students/writing-center/academic_honesty.php)

<sup>9</sup> <https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of>

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<sup>10</sup> <https://www.angelo.edu/incident-form>

<sup>11</sup> <https://www.angelo.edu/title-ix>

<sup>12</sup> <https://www.angelo.edu/covid-19/>