

Math 1351.D10- Mathematics for Elementary/Middle School Teachers II

Summer II 2020 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

Name: Mrs. Codi Jaynes	Virtual Office Hours: I will be online and readily available Monday – Friday from 9:00 – 10:30 am. During this time window, I should be able to reply to emails quickly and answer phone calls. If you would like to meet face-to-face virtually (using Blackboard Collaborate), this would be the best time. Email me to set up a meeting during this time, or any other time.
Office: MCS 220C	
Phone: 325-486-5446	
Email: codi.jaynes@angelo.edu	

This class is delivered 100% online. Other office hours can be available by appointment only.

This is an online course and therefore all of the learning will take place online. To be successful in this course you must be able and willing to do the following:

- Access the internet from home and/or school.
- Spend quality time each week preparing for new material and completing homework and quizzes (approximately 10-12 hours or more).
- Organize your notes, homework, quizzes, and exam reviews in an easily accessible and easily readable form, preferably in a 3-ring binder.
- Ask questions, form a study group, and visit the Math Lab or use Upswing as needed.
- Complete all homework and quizzes accurately and on time.
- Prepare for exams and perform successfully on exams.

Course Delivery: This is an online course with all components accessible from Blackboard. There will be third-party resources used, but everything will be linked directly from Blackboard.

Blackboard/Email:

I plan to post notes, assignments, reviews, and other documents on Blackboard. I will expect you to print or download these documents and use them throughout the course 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 will frequently send you information via email. It is your responsibility to regularly check your angelo.edu email account. All communication outside of Blackboard will be sent to your ASU e-mail account. I will do my best to respond to all emails by the next business day.

If you are trying to get ahold of me, email is the best method. You can also call my office phone.

Tests/Final Exam: We will have 3 tests. The 3rd exam will be taken on final exam day, Wednesday 85. I do not give make-up exams. If you miss an exam and cannot make arrangements to take it before graded exams are handed back, you will take a comprehensive final exam instead of the 3rd test. You may take an exam early ONLY if I give you written permission. If you think you will need to miss an exam, you must contact me at least 48 hours before the scheduled test time. All decisions regarding changes in testing will be made at my discretion.

Exam dates are as follows: 7/16, 7/27, and 8/5. Coverage of material will be announced on Blackboard as each exam date approaches. Exams will be given from 9:00 – 11:30 am on the scheduled dates. If you have a conflict with this timeline, please email me as soon as possible to discuss other arrangements.

Daily Videos: We will be having class using a series of daily videos. These videos will vary in length and content. Some will be lecture-style, others will contain activities, and a few will just be announcements. It is expected that you will watch each video posted in its entirety. Each video will have a “mark reviewed” button for you to help yourself stay on track as to which videos have been watched. Daily “participation” grades will be given based on the completion of each video. If you do not mark reviewed on each video for the day, you will receive a 0. Marking reviewed on all videos for that day will result in a grade of 100.

Expectations of Students: As a future educator, in this class you will be expected to:

- Participate in class consistently.
- Foster a learning environment by practicing common courtesy at all times. Be respectful of your classmates and work cooperatively and constructively during activities.
- Pay attention fully during class – remove distractions by turning off cell phones and other electronics.
- Complete each assignment by the specified due date. All homework is due at 9:00 am (CST) each day.
- Maintain academic honesty.
- Work outside of class on homework and review materials to master concepts and adequately prepare for exams. Seek out extra practice when needed.
- Utilize, as needed, all available study-aid options (including visiting the math lab, meeting with the instructor, etc.) to resolve questions.

Grading: Assignments and grades will be posted on Blackboard. Throughout the semester there will be: homework, in-class activities, discussion boards, online assignments, etc. These will all be combined to form the daily average. I use the standard: 100 – 90 A, 89 – 80 B, 79 – 70 C, 69 – 60 D, below 60 F. This class is part of the coursework for your major, so a grade of C or better is required to pass.

Grading Scheme

Daily average- 25%

Each regular exam (3)- 25% (total of 75%)

Homework: All homework and quizzes should be worked with a #2 pencil, or blue/black ink. Please use standard size white notebook paper (or unlined bond) for homework. Box in your answers. Except for true/false and completion problems, show your work in an organized readable form. All homework will be submitted digitally. When submitting your assignments, please make sure all submissions are in PDF form, with the pages in the correct order, with proper orientation. Also, make sure all intended pages are included within the document BEFORE you submit. When I grade your tests, I will grade your work as well as your answers. A general rule is to show as much work on your papers as I show on similar problems in class. If you submit homework with no work shown, you will receive a grade of 0.

I will accept 1 set of late homework only. I plan to drop six daily grades before computing your daily average. This is the leeway you are given to allow for unavoidable absences. You need to think of this as your insurance in case you get sick or have a family emergency. Do not waste them! Since homework is submitted digitally, there is no excuse for missed assignments. **Homework assignments are due promptly at 9:00 am.**

Portfolios: A portfolio is a collection of various things for and about each student. It has many purposes: to teach organizational skills, to keep track of assignments, to use as a study guide, to create a resource file for future use, etc. Please use a 3-ring binder and a package of dividers to put your portfolio together. Utilize your portfolio with class every day.

Your divider tabs need to be labeled:

- Assignments, Test 1 material, Test 2 material, Test 3 material, tests, lab manual, and miscellaneous.

You also need to make a title page that includes:

- MATH 1351, Mathematics for Elementary/Middle School Teachers II, Summer II 2020, and your name.

This portfolio will be a great resource in the future as you begin preparing for your certification exams. Please do not throw it away after this semester. Keep it and use it to help you in the future.

Prerequisites

- 1) College Algebra (MATH 1314) OR Finite Mathematics (MATH 1324) with a grade of C or better
- 2) Mathematics for Elementary/Middle School Teachers I (MATH 1350) with a grade of C or better

Required text/lab manual

- *A Problem Solving Approach to Mathematics for Elementary School Teachers*, 13th Edition, by Billstein, Libeskind, and Lott
- We will be using an online homework system called MyMathLab on a weekly basis. It is important to note that an eBook will be available through MyMathLab.
- The MATH 1351 lab manual (only available at the ASU Bookstore)

Miscellaneous Supplies

Notebook paper, One 3-inch 3-ring binder, One packet of 8 tabs, parchment paper, protractor, compass, & ruler. Most of these things can be purchased at a dollar store at a very affordable price and will be good things to have on hand for your future classroom.

Math Lab

There is a free math lab where you can periodically get help with your homework. To access the virtual ASU Math Lab, log into Blackboard and find “**Tutor, SI and Math Lab Academic Support for Students**” in the Organizations area. Then use the Math Lab button on the left side of that page to view the tutors’ availability through Blackboard Collaborate.

Special Notes for Online Courses:

- Since this class has no regular class meetings other than exams, it is your responsibility to learn the material and to stay current with the course material being covered.
- During the week, a regular lecture course would spend 4 hours a week to cover the topics in a lecture format. For online courses, you need to allot around 4 hours a week to watch the lecture videos and utilize any resources needed.
- As an estimation, you can expect to spend an additional 6 – 9 hours a week completing the homework, quizzes, and studying for exams.
- During the working day (Monday – Friday from 8am – 4pm), I will do my best to reply to your emails within 2 hours. Outside of the working day, I will respond as soon as possible, but it might be the next working day before a response is sent.
- Keep in mind that all homework will be due at 9:00 am Monday through Friday. Try to work on your homework and quizzes as soon as possible as computer and internet problems do occur. There are no extensions on homework and quizzes.
- Keep a homework notebook with problems thoroughly worked out to help study for your exams.
- Feel free to contact me at any time for help. 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.
- 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.

- 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.

Drop Date: July 24th 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 Handbook¹](#)

[Angelo State University Catalog²](#)

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. For more information about the application process and requirements, visit the [Student Disability Services website](#).³ The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford

Director of Student Disability Services

Office of Student Affairs

325-942-2047

dallas.swafford@angelo.edu

Houston Harte University Center, Room 112

Title IX at Angelo State University

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.

Students 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 at:

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.

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. See ASU Operating Policy 10.19 Student Absence for [Observance of Religious Holy Day](#)⁴ 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](#)⁵ 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](#)⁶

Plagiarism: Plagiarism is a serious topic covered in ASU's [Academic Integrity policy](#)⁷ 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](#)⁸. –

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. Students will gain factual knowledge including the mathematical terminology, classifications, and methods used in this course. Students will use the vocabulary, symbolism, structure, reasoning, and procedures that are needed to teach the mathematical content for grades K-8. See course content for more details.

2. Students will learn the fundamental principles, generalizations, and theories covered in this course. Students will demonstrate understanding of the conservation of area and volume, non-standard and standard measurement, proportionality, similarity, congruence, and basic probability.
3. Students will learn to apply course material. Students will be able to make connections between concepts and also apply knowledge in a new and different setting. In particular, students will learn how to translate course content into K-8 grade appropriate lessons.
4. Students will develop specific skills, competencies, and points of view needed by K-8 mathematics teachers. In addition to learning the mathematical content of this course, students will:
 - become familiar with the Texas Essential Knowledge and Skills (TEKS) and the National Council of Teachers of Mathematics (NCTM) Standards;
 - learn multiple approaches to the teaching of mathematics;
 - use manipulatives to model mathematical concepts;
 - develop communications skills (oral, written, and listening), knowledge of appropriate vocabulary, and various questioning strategies;
 - learn how to use resources (such as the Internet and NCTM journals) in planning classroom activities.
5. Students will gain a broader understanding and appreciation for mathematics.

Course Content:

The following chapters from the textbook are covered:

- Chapter 6: Rational Numbers and Proportional Reasoning
 - Proportional reasoning
- Chapter 7: Rational Numbers as Decimals and Percents
 - Converting percents; basic percent problems; percent increase and decrease
- Chapter 9: Probability
 - Probability; experimental and theoretical probability; probability rules and simulations.
- Chapter 10: Data Analysis / Statistics
 - Observational studies and experiments; statistical graphs and tables; misleading graphs and statistics; mode, median, and mean; measuring spread; standardized test scores. (as time permits)
- Chapter 11: Introduction to Geometry
 - Beginning geometry; polygons; triangles, quadrilaterals, and circles; angle measures of polygons; three-dimensional geometry; viewing and drawing solid figures; symmetry
- Chapter 12: Congruence and Similarity
 - Congruent triangles; similar polygons
- Chapter 13: Area, Pythagorean Theorem, and Volume
 - Measurement. systems of measurement; perimeter and area; areas of quadrilaterals, triangles, and circles; the Pythagorean theorem; surface area; volume; lengths, areas, and volumes of similar figures.
- Chapter 14: Transformations
 - Translations; rotations; reflections; dilations; tessellations

Tentative Course Schedule

Day	Topic
1	Syllabus, class expectations, ratio and proportions
2	Ratio and proportions
3	Scale drawing, conversions, fractions, decimals

Day	Topic
4	Percent
5	Basic geometry
6	Triangles
7	Planar figures, polygons
8	Polygons
9	EXAM 1
10	Circles, space figures
11	Space figures, nets
12	Symmetry, Transformations
13	Similar figures, dilations
14	Measurement
15	Measurement
16	EXAM 2
17	Perimeter and area, circumference
18	Composite shapes, Pythagorean theorem, Surface area, volume
19	Surface area, volume
20	Central Tendency, statistics
21	Probability
22	Review
23	EXAM 3

*The schedule listed below is tentative and subject to adaption. For current updated information, contact the instructor.

¹ <http://www.angelo.edu/student-handbook/>

² <http://www.angelo.edu/catalogs/>

³ <https://www.angelo.edu/services/disability-services/>

⁴ <http://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of>

⁵ <http://www.angelo.edu/content/files/14197-op-1011-grading-procedures>

⁶ <http://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

⁷ <http://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

⁸ http://www.angelo.edu/dept/writing_center/academic_honesty.php