

MATH 1351.010, 01Z

Mathematics for EL/MS II

Summer II 2021



Instructor: Ms. Cynthia Bishop

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Office: MCS 220B

Office Hours:

Monday- Friday: 10:30 am-12:00 pm and 2:15 pm – 2:45 pm

And by appointment

Note: Office hours can be attended in person or virtually

Course Information

Course Description

Decimals and real numbers, nonmetric geometry, metric geometry, measurement, graphs, probability and statistics. Lab activities will include making and using math manipulatives, comparing different problem solving techniques, making interdisciplinary connections, and experiencing math concepts through auditory, visual, and kinesthetic approaches to inquiry-based activities.

Prerequisite and Co-requisite Courses

Math 1314 or Math 1324 with a grade of C or better

Math 1350 with a grade of C or better

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;
5. Students will gain a broader understanding and appreciation for mathematics.

Course Delivery

This course will be in a face-to-face format this semester. All students are expected to attend class regularly. Testing must be done in person. To allow for illness and other unavoidable absences, class will be recorded each day. Students that need to miss class will be allowed to ask for the class recording via email and will have 24 hours to watch the recording and complete all activities. Each student is allowed three remote days without penalty.

Required Texts and Materials

- Notebook paper or spiral
- One 3-inch 3-ring binder
- One packet of 8 tabs
- Protractor, ruler, scissors & markers/colored pencils
- MyMathLab access (this includes an ebook) for *A Problem Solving Approach to Mathematics for Elementary Teachers*, 13th Edition by Billstein, Libeskind, and Lott
- The 1351 lab manual (only available at the ASU Bookstore)

Technology Requirements

To successfully complete this course, students need to have

- Access to MyMathLab as listed above. (Students who previously purchased this access for Math 1350 may not need to purchase it again.)
- The ability to scan documents as a PDF and upload to Gradescope.
- Access to a computer and printer
- Reliable internet access

Communication

I 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.

Written communication via email: All private communication will be done exclusively through your ASU email address. Check frequently for announcements and policy changes. In your emails to faculty, include the course name and section number in your subject line.

Virtual communication: Office hours and/or advising may be done with the assistance of the telephone or Blackboard Collaborate

Grading

Evaluation and Grades

Course grades will be determined as indicated in the table below.

Assessment	Percent of Total Grade
Daily grades and homework	20%
Exams 1-4 Average	70% (17.5% each)
Attendance	10%
Total	100%

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 (Grades are not rounded up)

Assignment and Activity Descriptions

Exams

There will be four in class exams. The fourth exam will be taken during the final exam slot. (The final is scheduled for Friday 8/13 from 12:30 pm – 2:30 pm). If you miss an exam, you will take a comprehensive final exam instead of the fourth exam. All exams must be taken in class or in an approved testing center.

You may take an exam outside of the scheduled time 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.

If you are seen on your phone or other electronic device (such as a laptop or Apple watch) during an exam it is an automatic zero. Any academic dishonesty during an exam will result in a zero on the exam.

In-Class Grades

Due to the large number of in class activities we do during the semester, you will receive a daily grade for a particular activity each class day. Those who are in class and participating will automatically receive a 100. For those using a class recording, instructions for completing your daily grade will be given via email.

Centers

Center activities require students to come into the classroom outside of class time and complete an activity. Centers often involve hands on materials and activities. Due to the current circumstances, centers will be modified so that they can be completed with little or no sharing of materials.

Homework

Homework in this class will be in one of two formats: 1) Online assignments that will be completed and graded in MyMathLab and 2) assignments from the lab manual. All lab manual assignments should be worked in an organized, readable form with answers clearly boxed. Once an assignment is completed it will be uploaded to Gradescope. All submissions must be 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. For variable length assignments you must specify the problems on each page. Failure to follow directions will result in a grade deduction. More information about Gradescope can be found on Blackboard.

Homework assignments will be given at the end of class and will also be posted on Blackboard. It is your responsibility to keep up with assignments and due dates. All homework is due at 10:00 pm (CST) on the assigned due date.

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 purchase a 3-ring binder and a package of 8 dividers. Your divider tabs need to be labeled: Assignments, Test 1 material, Test 2 material, Test 3 material, Test 4 material, tests, lab manual, and miscellaneous. You also need to make a title page that includes the following: MATH 1351, Mathematics for Elementary/Middle School Teachers II, Summer II 2021, and your name. You must bring your portfolio to class every day. Instructions on compiling the portfolio will be given on the first day of class

Attendance

All students will begin with an attendance grade of 100. Each absence will result in a 10 point deduction to the attendance grade. Recall, however, that each student is allowed three remote days. These days will not affect the attendance grade as long as the student completes the recording and the daily assignment within 24 hours.

Expectations of Students

As a future educator, you are 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 10:00 pm (CST).
- 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.

Last Day to Drop

The last day to drop a class is Monday August 2, 2021.

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](#)¹
- [Angelo State University Catalog](#)²

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](#).³

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](#).⁴ 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

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.

Plagiarism

Plagiarism is a serious topic covered in ASU's [Academic Integrity policy](#)⁶ 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.

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](#)⁷ for more information.

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 Miller, J.D.
Special Assistant to the President and Title IX Coordinator

Mayer Administration Building, Room 210
325-486-6357

michelle.boone@angelo.edu

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

In order to speak to someone about 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.

Modifications to the Syllabus

This syllabus, including grade evaluation and course schedule, is subject to modification.

Course Schedule

Week	Dates	Subject Matter
1	Monday 7/12	Syllabus, Class Expectations, Ratio and Proportion
2	Tuesday 7/13	Ratio and Proportion
3	Wednesday 7/14	Scale Drawings, Conversions, Percent Intro
4	Thursday 7/15	Proportional Reasoning, Percent
5	Friday 7/16	Percent Increase/Decrease, Basic Geometry
6	Monday 7/19	Review, Basic Geometry, Triangles
7	Tuesday 7/20	Review, Triangles, Planar Figures
8	Wednesday 7/21	EXAM 1
9	Thursday 7/22	Planar Figures, Polygons, Quadrilaterals
10	Friday 7/23	Quadrilaterals, Circles, Intro to Space Figures
11	Monday 7/26	Review, Space Figures, Euler's, start Nets
12	Tuesday 7/27	Review, Nets, start Symmetry
13	Wednesday 7/28	EXAM 2
14	Thursday 7/29	Symmetry, Transformations
15	Friday 7/30	Similar Triangles, Dilations, Tessellations
16	Monday 8/2	Review, Measurement
17	Tuesday 8/3	Review, Area and Perimeter, Geoboards
18	Wednesday 8/4	EXAM 3
19	Thursday 8/5	Area of Polygons, Circles, Composite Shapes
20	Friday 8/6	Pythagorean Theorem, Volume and Surface Area
21	Monday 8/9	Volume and Surface Area, Scale Factor, Statistics
22	Tuesday 8/10	Statistics
23	Wednesday 8/11	Review, Statistics and Probability
24	Thursday 8/12	Review, Statistics
25	Friday 8/13	EXAM 4 (12:30-2:30 pm)

¹ <https://www.angelo.edu/current-students/student-handbook/>

² <https://www.angelo.edu/academics/catalog/>

³ <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=96>

⁴ <https://www.angelo.edu/current-students/disability-services/>

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

⁶ <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=96>

⁷ <https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of>