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
To maintain academic quality while accommodating social distancing needs this semester, this course will use a split delivery model that combines face-to-face teaching with remote instruction.

The goal is to provide face-to-face instruction to students who want to return to campus, while also allowing students who may need to learn remotely to participate via virtual class sessions.

How Does It Work?
This class is small enough that all students choosing to attend in-person class will be able to attend class every day.

For those not in the physical class, including both the students choosing fully online and those missing class for any reason, a video of class will be available. This video can be watched through Blackboard Collaborate in one of two ways. First, the class will be live streamed, so a student can “attend” class at the regular time. (I highly recommend live streaming when possible.) A recording will also be posted for those that cannot attend the live stream. You will be responsible for completing assigned coursework in Blackboard¹. This work can be completed any time before the posted deadline.

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, printer, and webcam (for those choosing online)
- 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.

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percent of Total Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily grades and homework</td>
<td>20%</td>
</tr>
<tr>
<td>Exams 1-3</td>
<td>60% (20% each)</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

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 three in class exams and a comprehensive final. (The final is scheduled for Wednesday 5/12 from 10:30 am – 12:30 pm). Those completing the class remotely will be taking the exams through Blackboard Collaborate. This will involve recording yourself and your workspace during the exam using your phone. Remote testing requires a phone, a printer, and reliable internet access. The session will be both recorded and monitored.

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 miss an exam, it cannot be made up. Your final exam can replace your lowest exam grade. **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 attending remotely, there will be instructions each day on how to get credit for the daily activity.

Centers
In a normal semester, 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 or omitted from the course content.

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, NCTM journals, 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, Spring 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.

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 Friday April 30, 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
• Angelo State University Catalog

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.
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. 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 for more information.

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.

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.

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.

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.

**Required Use of Masks/Facial Coverings by Students**

As a member of the Texas Tech University System, Angelo State University has adopted the mandatory [Facial Covering Policy](#) to ensure a safe and healthy classroom experience. Current research on the COVID-19 virus suggests there is a significant reduction in the potential for transmission of the virus from person to person by wearing a mask/facial covering that covers the nose and mouth areas. Therefore, in compliance with the university policy students in this class are required to wear a mask/facial covering before, during, and after class. Faculty members may also ask you to display your daily screening badge as a prerequisite to enter the classroom. You are also asked to maintain safe distancing practices to the best of your ability. For the safety of everyone, any student not appropriately wearing a mask/facial covering will be asked to leave the classroom immediately. The student will be responsible to make up any missed class content or work. Continued non-compliance with the Texas Tech University System Policy may result in disciplinary action through the Office of Student Conduct.

Please refer to this [Health and Safety web page](#) for updated information about campus guidelines as they relate to the COVID-19 pandemic.
## Modifications to the Syllabus

This syllabus, including grade evaluation and course schedule, is subject to modification. In particular, the COVID-19 pandemic may require significant changes in course delivery and content on potentially short notice.

## Course Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Subject Matter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/25 and 1/27</td>
<td>Ratio and Proportion</td>
</tr>
<tr>
<td>2</td>
<td>2/1 and 2/3</td>
<td>Proportion and Conversions</td>
</tr>
<tr>
<td>3</td>
<td>2/8 and 2/10</td>
<td>Percents and Basic Geometry</td>
</tr>
<tr>
<td>4</td>
<td>2/15 and 2/17</td>
<td>Percents, Basic Geometry, Triangles</td>
</tr>
<tr>
<td>5</td>
<td>2/22 and 2/24</td>
<td>Planar Figures, Polygons and Exam 1 (on 2/24)</td>
</tr>
<tr>
<td>6</td>
<td>3/1 and 3/3</td>
<td>Quadrilaterals, Circles, 3-D shapes</td>
</tr>
<tr>
<td>7</td>
<td>3/8 and 3/10</td>
<td>3-D shapes, Nets, Mirror Images</td>
</tr>
<tr>
<td>8</td>
<td>3/15 and 3/17</td>
<td>Symmetry, Transformations, Similar Triangles</td>
</tr>
<tr>
<td>9</td>
<td>3/22 and 3/24</td>
<td>Dilations, Tessellations, Measurement</td>
</tr>
<tr>
<td>10</td>
<td>3/29 and 3/31</td>
<td>Exam 2 (on 3/29), Area and Perimeter, Geoboards</td>
</tr>
<tr>
<td>11</td>
<td>4/5 and 4/7</td>
<td>Area and Perimeter, Circles, Pythagorean Theorem</td>
</tr>
<tr>
<td>12</td>
<td>4/12 and 4/14</td>
<td>Volume and Surface Area, Scale Factor</td>
</tr>
<tr>
<td>13</td>
<td>4/19 and 4/21</td>
<td>Statistics, Volume and Surface Area, Review</td>
</tr>
<tr>
<td>14</td>
<td>4/26 and 4/28</td>
<td>Exam 3 (on 4/26) and Probability</td>
</tr>
<tr>
<td>15</td>
<td>5/3 and 5/5</td>
<td>Statistics and Final Exam Review</td>
</tr>
<tr>
<td>16</td>
<td>5/12</td>
<td>Final Exam (10:30 am – 12:30 pm)</td>
</tr>
</tbody>
</table>

1. [angelo.blackboard.com](http://angelo.blackboard.com)
2. [https://www.angelo.edu/current-students/student-handbook/](https://www.angelo.edu/current-students/student-handbook/)
3. [https://www.angelo.edu/academics/catalog/](https://www.angelo.edu/academics/catalog/)
5. [https://www.angelo.edu/current-students/disability-services/](https://www.angelo.edu/current-students/disability-services/)
6. [https://www.angelo.edu/content/files/14197-op-1011-grading-procedures](https://www.angelo.edu/content/files/14197-op-1011-grading-procedures)
8. [https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of](https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of)