Math 1351.010 and 03Z  
MW 8:00-9:45 am  
Mathematics for Elementary/Middle School Teachers II  
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:  
Instructor: Mrs. Cynthia Bishop  
Office: MCS 220B  
Office Phone: (325) 486-5428  
e-mail: Cynthia.Bishop@angelo.edu

Office Hours:  
Monday / Wednesday: 10:00 am – 11:00 am ; 3:00 pm – 4:00 pm  
Tuesday / Thursday: 9:00 am – 11:00 am  
Friday: 9:00 am - 11:00 am  
and by appointment

Note: When contacting me via email or phone, allow 24 hours for a response. I do not make it a habit to check email from home.

Major Course Requirements:

TESTS  
We will have three tests and a comprehensive final exam. (The final exam will be Monday 12/10 from 8:00-10:00 am). I do not give make-up exams. If you miss an exam, your final exam will replace it. The final exam can also replace your lowest test grade if it is to your benefit. You may take an exam early ONLY if I excuse the absence.

IN-CLASS ACTIVITIES  
We will be doing many in-class activities and I usually take a daily grade for your participation. Reading about an activity is very different from experiencing an activity, so it is imperative that you make every effort to attend class. Most of these activities will involve the use of math manipulatives and will be done in small groups. Besides learning mathematical content in an inquiry-based environment, these activities will focus on learning how to communicate your thinking and how to listen to your peers. Hopefully, they will give you a deeper understanding of the content, and also give you ideas on how to teach math to children.

Note: If you are caught texting, sleeping, or working on material for another class you will receive a participation grade of zero for that day.

HOMEWORK  
All homework from the lab manual should be worked in an organized readable form with answers clearly boxed. A general rule is to show as much work on your papers as I show on similar problems in class. If you hand in homework with no work shown, you will get a grade of 0. When turning in assignments, staple multiple pages and then fold in half length-wise with your name, Math 1351, and assignment number on the outside. Online homework assignments in MyMathLab will be given periodically throughout the semester. These assignments will be submitted and graded within MyMathLab. I recommend keeping a record of your work in a spiral notebook for your own benefit.

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! If you know you are going to be absent, bring your homework by my office before class or send it with a classmate. Homework assignments are due promptly at the beginning of the class period. If you come in tardy, your homework will be counted as late. If you are absent, it is your responsibility to look on Blackboard and find out what homework was assigned. I would also appreciate it if you contact me to discuss your absences.
CENTERS
In a K-8 classroom, centers are hands-on activities that introduce new concepts, enrich or reinforce concepts that have already been taught, or help children make connections between different ideas. Centers are usually done in small groups with little or no teacher assistance. I plan to set up centers for you to do during the semester. It will be your responsibility to do these centers outside of class time. Most (if not all) will require you to do them in our classroom because there will be instructions and materials provided. Times that are available for access to the classroom will be announced soon.

GRADING
Assignments and grades will be posted on Blackboard. Throughout the semester there will be homework, in-class activities, internet assignments, etc. These will all be combined to form the daily average.

<table>
<thead>
<tr>
<th>Grade Component</th>
<th>Percentage of Semester Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily average</td>
<td>20% of the semester average</td>
</tr>
<tr>
<td>Each regular exam (3)</td>
<td>20% of the semester average</td>
</tr>
<tr>
<td>Final exam</td>
<td>20% of the semester average</td>
</tr>
</tbody>
</table>

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.

MATH LAB
There is a free math lab where you can do your homework and get help with it. It is located on the third floor of the library in room C302. Here’s the schedule:

- Monday-Thursday: 9:00 am – 8:00 pm
- Friday: 9:00 am– 12:00 pm
- Sunday: 4:00 pm – 8:00 pm

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 bring a 3-ring binder and a package of 8 dividers to the 2nd class period so that we can put your portfolio together. 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, Fall 2018, and your name. You may leave your textbook at home, but bring your portfolio to class every day.

ATTENDANCE POLICY
0-4 Absences: No change to average
5 + Absences: 3 points will be subtracted from your final average for each absence

Attendance will be taken daily. If you are tardy, it is your responsibility to let me know after class so I can change my records. Do not make tardiness a habit. Also, it is your responsibility to check for missed assignments on Blackboard when you are absent.

PREREQUISITE
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
(You may purchase a stand-alone access code for MyMathLab or purchase a textbook/access code bundle)

DROP DATE: The last day to drop a class is Thursday November 1st.

MATERIALS
- Notebook paper or spiral
- One 3-inch 3-ring binder
- One packet of 8 tabs
- Protractor, compass, & ruler
- MyMathLab access (this includes an ebook)
- The 1351 lab manual (only available at the ASU Bookstore)
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
325-942-2022
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. (OP 10.19 Student Absence for Observance of Religious Holy Day)

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 OP 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 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.
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 12-13: Congruence and Similarity
  - Congruent triangles; similar polygons; translations; rotations; reflections; dilations; tessellations

- Chapter 14: 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.
Course Schedule:

(The subject matter schedule listed below is tentative and subject to adaptation. For current updated information, contact the instructor.)

<table>
<thead>
<tr>
<th>Day#</th>
<th>Date</th>
<th>Subject Matter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M 8/27</td>
<td>Syllabus, class expectations, ratio and proportion</td>
</tr>
<tr>
<td>2</td>
<td>W 8/29</td>
<td>Ratio and proportion</td>
</tr>
<tr>
<td>3</td>
<td>W 9/5</td>
<td>Ratio and proportion, scale drawing</td>
</tr>
<tr>
<td>4</td>
<td>M 9/10</td>
<td>Conversions, percent</td>
</tr>
<tr>
<td>5</td>
<td>W 9/12</td>
<td>Percent, basic geometry</td>
</tr>
<tr>
<td>6</td>
<td>M 9/17</td>
<td>Percent problems, basic geometry</td>
</tr>
<tr>
<td>7</td>
<td>W 9/19</td>
<td>Basic geometry, triangles</td>
</tr>
<tr>
<td>8</td>
<td>M 9/24</td>
<td>Planar figures, polygons</td>
</tr>
<tr>
<td>9</td>
<td>W 9/26</td>
<td>TEST 1</td>
</tr>
<tr>
<td>10</td>
<td>M 10/1</td>
<td>Polygons, quadrilaterals, circles</td>
</tr>
<tr>
<td>11</td>
<td>W 10/3</td>
<td>Space figures, nets</td>
</tr>
<tr>
<td>12</td>
<td>M 10/8</td>
<td>Space figures, 3-D drawings, symmetry</td>
</tr>
<tr>
<td>13</td>
<td>W 10/10</td>
<td>Symmetry, transformations</td>
</tr>
<tr>
<td>14</td>
<td>M 10/15</td>
<td>Transformations, similar figures</td>
</tr>
<tr>
<td>15</td>
<td>W 10/17</td>
<td>Dilations, tessellations</td>
</tr>
<tr>
<td>16</td>
<td>M 10/22</td>
<td>Tangrams, pentominoes , measurement intro</td>
</tr>
<tr>
<td>17</td>
<td>W 10/24</td>
<td>Measurement, geoboards</td>
</tr>
<tr>
<td>18</td>
<td>M 10/29</td>
<td>TEST 2</td>
</tr>
<tr>
<td>19</td>
<td>W 10/31</td>
<td>Area and Perimeter, circumference</td>
</tr>
<tr>
<td>20</td>
<td>M 11/5</td>
<td>Pythagorean Thm, Composite Shapes</td>
</tr>
<tr>
<td>21</td>
<td>W 11/7</td>
<td>Surface area / Volume</td>
</tr>
<tr>
<td>22</td>
<td>M 11/12</td>
<td>Surface Area/Volume, scale factor</td>
</tr>
<tr>
<td>23</td>
<td>W 11/14</td>
<td>Surface Area / Volume, Geometry review</td>
</tr>
<tr>
<td>24</td>
<td>M 11/19</td>
<td>Statistics</td>
</tr>
<tr>
<td>25</td>
<td>M 11/26</td>
<td>Statistics, review</td>
</tr>
<tr>
<td>26</td>
<td>W 11/28</td>
<td>TEST 3</td>
</tr>
<tr>
<td>27</td>
<td>M 12/3</td>
<td>Probability</td>
</tr>
<tr>
<td>28</td>
<td>W 12/5</td>
<td>Probability, review</td>
</tr>
<tr>
<td>29</td>
<td>M 12/10</td>
<td>FINAL EXAM (8-10 am)</td>
</tr>
</tbody>
</table>

---

1 http://www.angelo.edu/opmanual/
2 http://www.angelo.edu/content/files/14197-op-1011-grading-procedures
3 http://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
4 http://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
5 http://www.angelo.edu/dept/writing_center/academic_honesty.php