Math 1351.010 and 02Z
M-F 12:00-2:15 pm
Mathematics for Elementary/Middle School Teachers II
Summer II 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 - Friday: 11:00 am – 11:45 am; 2:15 pm – 3:00 pm
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. The third exam will be taken during the final exam slot on Wednesday 8/8 from 12:30-2:45 pm. I do not give make-up exams. If you miss an exam, you will take a comprehensive final exam instead of the third test. 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 AND QUIZZES
All homework and quizzes should be worked with a #2 pencil and folded in half length-wise with your name, Math 1351, and assignment number on the outside. Please use standard size white notebook paper (or unlined bond) for homework. If you have more than one piece of paper, staple your papers together in the upper left-hand corner. Box in your answers. Except for true/false and completion problems, show your work in an organized readable form. 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 hand in homework with no work shown, you will get 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. 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. Our classroom is unoccupied when our class is not in session. If the room is locked, please ask me or another faculty member to unlock it for you. You may not be able to gain access to the classroom if no faculty are present.

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.

- Daily average: 20% of the semester average
- Each exam (3): 25% of the semester average
- Attendance: 5% of the semester average

If you have more than 6 absences you will receive an automatic F in this course.

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: 12:00 pm – 4:00 pm
- Friday: 10:00 am – 2:00 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, Summer II 2018, and your name. You may leave your textbook at home, but bring your portfolio to class every day.

ATTENDANCE POLICY
Attendance is a highly important part of this class. Class starts promptly at 12:00 pm. You should be in the classroom with homework ready to turn in at this time. Each student will start with an attendance grade of 100. An absence will result in a 10 point reduction in your attendance grade. (If you leave class early you will be counted absent.) A tardy will result in a 5 point reduction to your attendance grade. More than 6 absences will result in an automatic F for the course.

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

DROP DATE: The last day to drop a class is Monday July 30th.

MATERIALS
- Notebook paper or spiral
- One 3-inch 3-ring binder
- One packet of 8 tabs
- Protractor, compass, & ruler
- 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
325-486-6357
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 7:
  o Decimals, Percents, and Real Numbers. ratio and proportion; percents. (The rest of this chapter is covered in Math 1350.)

- Chapter 8:
  o Introductory Geometry. beginning geometry; polygons; triangles, quadrilaterals, and circles; angle measures of polygons; three-dimensional geometry; viewing and drawing solid figures.

- Chapter 9:
  o Congruence, Symmetry, and Similarity. transformations and congruence; applications of transformations; constructions and congruence; symmetry; similarity and dilations.

- Chapter 10:
  o 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 12:
  o 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 13:
  o Probability. experimental and theoretical probability; probability rules and simulations.
Course Schedule:

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

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<thead>
<tr>
<th>Day#</th>
<th>Date</th>
<th>Subject Matter</th>
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<tbody>
<tr>
<td>1</td>
<td>T 7/10</td>
<td>Syllabus, class expectations, ratio and proportion</td>
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<tr>
<td>2</td>
<td>W 7/11</td>
<td>Ratio and proportion, scale drawing, conversions</td>
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<tr>
<td>3</td>
<td>R 7/12</td>
<td>Basic geometry, percents</td>
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<tr>
<td>4</td>
<td>F 7/13</td>
<td>Percents, percent increase/decrease, basic geometry</td>
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<tr>
<td>5</td>
<td>M 7/16</td>
<td>Percent, 2D geometry</td>
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<tr>
<td>6</td>
<td>T 7/17</td>
<td>Triangles, polygons</td>
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<tr>
<td>7</td>
<td>W 7/18</td>
<td>Quadrilaterals, review</td>
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<tr>
<td>8</td>
<td>R 7/19</td>
<td>TEST 1</td>
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<tr>
<td>9</td>
<td>F 7/20</td>
<td>Polygons, circles, space figures</td>
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<tr>
<td>10</td>
<td>M 7/23</td>
<td>Space figures, nets, symmetry</td>
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<tr>
<td>11</td>
<td>T 7/24</td>
<td>Symmetry, transformations, similar figures</td>
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<td>12</td>
<td>W 7/25</td>
<td>Similar figures, dilations, tessellations</td>
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<tr>
<td>13</td>
<td>R 7/26</td>
<td>Measurement, conversions</td>
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<td>14</td>
<td>F 7/27</td>
<td>Perimeter/Area, review</td>
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<td>15</td>
<td>M 7/30</td>
<td>TEST 2</td>
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<tr>
<td>16</td>
<td>T 7/31</td>
<td>Perimeter/Area, circles, composite shapes, Pythagorean Theorem</td>
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<tr>
<td>17</td>
<td>W 8/1</td>
<td>Pythagorean Theorem, surface area, volume, converting area</td>
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<td>18</td>
<td>R 8/2</td>
<td>Surface area, volume, scale factor</td>
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<td>19</td>
<td>F 8/3</td>
<td>Surface area, volume, statistics</td>
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<td>20</td>
<td>M 8/6</td>
<td>Statistics</td>
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<tr>
<td>21</td>
<td>T 8/7</td>
<td>Probability, review</td>
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<td>22</td>
<td>W 8/8</td>
<td>TEST 3</td>
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