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. Paula Koca
Office: MCS 220L
Office Phone: (325) 486-5437
Fax: (325) 942 – 2503
e-mail: Paula.Koca@angelo.edu

Office Hours:
Monday-Thursday: 9am – 10:15am
If you need to meet at a different time and day, just let me know what works for you.

Major Course Requirements

EXAMS
We will have four exams. I do not give make-up exams. You may take an exam early ONLY if needed.

PAPER HOMEWORK
All paper homework will be scanned and uploaded to Gradescope, an online platform. More information regarding Gradescope is available in Blackboard. Please use standard size white notebook paper (line or unlined) for homework. Box in your answers and show all your work in an organized readable format. A paper with no work to support answers will received a grade of 0.

ONLINE HOMEWORK
We will be using an online program called MyMathLab for part of the homework this semester. To access MyMathLab, login to Blackboard, and select this course. Next, select the tab “MyMathLab HW”. Then, click the link to being registration and related homework for MyMathLab. You may access MML anywhere internet is available. Homework is an important part of this class. If you wish to be successful in this class, you must complete the homework.

GRADING
Assignments and grades will be posted on Blackboard. Throughout the semester there will be:

Homework, MyMathLab assignments, journal assignments, watching lecture videos, etc. These will all be combined to form the daily average.

Daily average...............................20% of the semester average
Each regular exam (4)......................20% of the semester 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.

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. Math Lab Hours can be found at this location on the Angelo State University website: http://www.angelo.edu/dept/mathematics/lab_hours.php

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 so that you can put your portfolio together. Your divider tabs need to be labeled: Assignments, Exam 1
material, Exam 2 material, Exam 3 material, Exam 4 material, NCTM journals, Exams, and lab manual. You also need to make a title page that includes: MATH 1350, Mathematics for Elementary/Middle School Teachers I, Summer I 2020, and your name.

ATTENDANCE POLICY
Attendance will be taken daily throughout the semester via participation in watching course videos and in completing course assignments.

PREREQUISITE
College Algebra or Finite Mathematics with a grade of C or better.

REQUIRED TEXT
A Problem Solving Approach to Mathematics for Elementary School Teachers, 12th Edition by Billstein, Libeskind, & Lott

MISC.
Stuff to buy: Notebook paper
One 3-inch 3-ring binder
One packet of 8 tabs
Ruler
1 piece of colored poster board
The 1350 lab manual (only available at the ASU Bookstore)

DROP DATE: The last day to drop a class is Friday, June 19, 2020.

COURSE SCHEDULE:
The subject matter schedule listed below is tentative and subject to change and adaption. For current updated information, contact the instructor.

<table>
<thead>
<tr>
<th>Number</th>
<th>Day</th>
<th>Date</th>
<th>Subject Matter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M</td>
<td>6/1</td>
<td>Syllabus, class expectations, problem solving, inductive and deductive reasoning</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>6/2</td>
<td>Problem solving, sequences</td>
</tr>
<tr>
<td>3</td>
<td>W</td>
<td>6/3</td>
<td>Problem solving, sequences and patterns</td>
</tr>
<tr>
<td>4</td>
<td>R</td>
<td>6/4</td>
<td>Tactile equations, patterns, Venn Diagrams, sets</td>
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<tr>
<td>5</td>
<td>F</td>
<td>6/5</td>
<td>Venn Diagrams, Intro to numeration, review</td>
</tr>
<tr>
<td>6</td>
<td>M</td>
<td>6/8</td>
<td>Exam 1 @ 9AM</td>
</tr>
<tr>
<td>7</td>
<td>T</td>
<td>6/9</td>
<td>Rounding, Numeration systems, addition categories and properties</td>
</tr>
<tr>
<td>8</td>
<td>W</td>
<td>6/10</td>
<td>Numeration systems, subtraction and multiplication categories and properties</td>
</tr>
<tr>
<td>9</td>
<td>R</td>
<td>6/11</td>
<td>Numeration systems, division categories and properties, base 5</td>
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<tr>
<td>10</td>
<td>F</td>
<td>6/12</td>
<td>Review categories and properties, order of operations, base 5</td>
</tr>
<tr>
<td>11</td>
<td>M</td>
<td>6/15</td>
<td>Base 5/Base 10, numeration review, Intro to number theory</td>
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<tr>
<td>12</td>
<td>T</td>
<td>6/16</td>
<td>Exam 2 @ 9AM</td>
</tr>
<tr>
<td>13</td>
<td>W</td>
<td>6/17</td>
<td>Addition/subtraction algorithms, number theory</td>
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<tr>
<td>14</td>
<td>R</td>
<td>6/18</td>
<td>Multiplication/division algorithms, prime factorization, divisibility</td>
</tr>
<tr>
<td>15</td>
<td>F</td>
<td>6/19</td>
<td>Prime &amp; composite numbers, prime factor test, GCF, LCM</td>
</tr>
<tr>
<td>16</td>
<td>M</td>
<td>6/22</td>
<td>GCF, LCM, Fraction intro, Fraction strips, Fractions with pictures,</td>
</tr>
<tr>
<td>17</td>
<td>T</td>
<td>6/23</td>
<td>Fractions with Cuisenaire rods, pattern blocks, and counters, review</td>
</tr>
<tr>
<td>18</td>
<td>W</td>
<td>6/24</td>
<td>Exam 3 @ 9AM</td>
</tr>
<tr>
<td>19</td>
<td>R</td>
<td>6/25</td>
<td>Traditional fraction algorithms, Fractions, Decimals</td>
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<tr>
<td>20</td>
<td>F</td>
<td>6/26</td>
<td>Fraction and Decimal conversions, Real Numbers</td>
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<tr>
<td>21</td>
<td>M</td>
<td>6/29</td>
<td>Real Number, Integers</td>
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<tr>
<td>22</td>
<td>T</td>
<td>6/30</td>
<td>Review</td>
</tr>
<tr>
<td>23</td>
<td>W</td>
<td>7/1</td>
<td>Exam 4 @ 9AM</td>
</tr>
</tbody>
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University Policies

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

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.

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 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.
**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.

**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.

**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 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.

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**.

**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.

**Math 1350 – Mathematics for Elementary/Middle School Teachers I**

**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 1: An Introduction to Problem Solving
  o Inductive and deductive reasoning; patterns; problem solving
• Chapter 2: Introduction to Logic and Sets
  o Sets; operations on sets; Venn diagrams
• Chapter 3: Numeration Systems and Whole Number Operations
  o Numeration systems; addition, subtraction, multiplication, and division of whole numbers; properties, algorithms, mental computation, and estimation of whole numbers; place value and algorithms in other bases
• Chapter 4: Number Theory
  o Factors; divisibility; prime and composite numbers; common factors and multiplies
• Chapter 5: Integers
  o Addition, subtraction, multiplication, and division of integers; properties of integer operations
• Chapter 6: Rational Numbers and Proportional Reasoning
  o Rational numbers; addition, subtraction, multiplication, and division of rational numbers; properties, estimation, and error patterns with rational numbers.
• Chapter 7: Decimals, Percents, and Real Numbers
  o Place value, estimation, and mental computation with decimals; decimal arithmetic and error patterns; rational, irrational, and real numbers.

http://www.angelo.edu/student-handbook/
http://www.angelo.edu/catalogs/
http://www.angelo.edu/incident-form
http://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of
http://www.angelo.edu/content/files/14197-op-1011-grading-procedures
http://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
http://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
http://www.angelo.edu/dept/writing_center/academic_honesty.php