Math 1350.020 and 02Z- Math for Elementary/Middle School Teacher I  
Spring 2019 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

<table>
<thead>
<tr>
<th>Name: Mrs. Codi Jaynes</th>
<th>Office Hours: Monday &amp; Wednesday 8:30 – 10:00 am &amp; 11:00 am – 12:00 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office: MCS 220C</td>
<td>Tuesday &amp; Thursday 8:30 – 9:00 am, 11:00 – 11:30 am, &amp; 2:00 – 3:00 pm</td>
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<tr>
<td>Phone: 325-486-5446</td>
<td>Friday 8:30 – 10:00 am</td>
</tr>
<tr>
<td>Email: <a href="mailto:codi.jaynes@angelo.edu">codi.jaynes@angelo.edu</a></td>
<td>or by appointment</td>
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</table>

This class meets TR 9:00 – 10:45 am in MCS 211.

Math Lab: The Math Learning lab is available on campus that provide FREE math tutoring. Please utilize this great resource- no appointment is necessary.

- MATH LAB- LIB C302 (upstairs)
  - Monday – Thursday: 9:00 am – 8:00 pm
  - Friday: 9:00 am – 12:00 pm
  - Sunday: 4:00 pm – 8:00 pm

Blackboard/Email:

- I plan to post notes, test reviews, and other documents on Blackboard. I will expect you to print these documents and bring them with you to class when I tell you to. I will also post grades and other important announcements on Blackboard.
- Blackboard can be accessed through RamPort or by visiting http://blackboard.angelo.edu.
- I may send you information via email. It is your responsibility to regularly check your angelo.edu email account. All electronic correspondence will be sent to your ASU e-mail account unless other arrangements are made. I will do my best to respond to all emails by the next business day.

Tests/Final Exam: We will have 4 tests and a comprehensive final exam. The final exam will be Tuesday, May 7th from 8:00 – 10:00 am. I do not give make-up exams. If you miss an exam and cannot make arrangements to take it before graded exams are handed back, your final exam will replace the missed exam. For those who do not miss an exam, the final exam can replace your lowest test grade if it is to your benefit. The exact dates and coverage of these tests will be announced in class; however, as a planning guide, you may expect to take the exams as noted in the below. If you leave the room during an exam, I may take your test and grade it AS IS!!

If you are not able to take your exam at the scheduled time, you need to speak with me IN PERSON at least 2 days (48 hours) before the scheduled test time. Communication via email is not sufficient, unless you are ill. If this is the case, you must send me an official doctor’s note stating that you cannot come take the exam before the scheduled test time. All decisions regarding changes in testing will be made at my discretion.

Approximate Exam dates are as follows: 2/7, 3/7, 4/4, & 4/28. Exact exam dates and coverage of material will be announced in class and on Blackboard.

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.

**Classroom Behavior:** I expect students to be respectful of all the members of our class. Please refrain from any avoidable distracting behavior such as talking during the lecture, getting off-task during the activity time, leaving your cell phone on, texting, etc. If you are caught texting, sleeping, or otherwise off task, you will receive a participation grade of zero for that day.

**Paper Homework and Quizzes:** All paper homework and quizzes should be worked with a #2 pencil and folded in half length-wise with your name, Math 1350, 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 pages together in the upper left-hand corner. Box your answers and show your work in an organized readable form. 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. 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.

**Online Homework:** We will be using an online program called MyMathLab for part of the homework this semester. The website is [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com). To set up an account you will need your ASU email address, the course ID (jaynes97459), and your student access code (packages with your textbook or purchased directly from 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.

**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 in 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%
- Exams- 15% each
- Final Exam- 20%

**Final Grades:** This class is part of the coursework for your major, so a grade of C or better is required to pass. Final grades will be determined using the following scale

- A: 90% or above
- B: 80% - 89%
- C: 70% - 79%
- D: 60% - 69%
- F: Below 60%
Portfolio: 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, Test 4 Material, NCTM journals, tests, and lab manual. You also need to make a title page that includes: Math 1350, Mathematics for Elementary/Middle School Teachers I, Spring 2019, and your name. You may leave your textbook at home, but you must bring your portfolio to class every day.

Attendance Policy: 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.

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

Prerequisite: College Algebra (Math 1314) OR Finite Mathematics (Math 1324) with a grade of C or better.

Required Text: A Problem Solving Approach to Mathematics for Elementary Teachers, 12th Edition by Billstein, Libeskind, and Lott. (You may purchase a stand-alone access code for MyMathLab which includes the textbook, or you may purchase a textbook/access code bundle.)

Materials:
- Notebook Paper
- One 3-inch 3-ring binder
- One packet of 8 dividers with tabs
- MyMathLab access (includes the textbook) or textbook/access code bundle
- The 1350 lab manual (only available at the ASU Bookstore)

Drop Date: March 28th is the last day to drop a course with a W or withdraw from ASU.

Common Courtesy:
- Please turn off all cell phones or any other electronic devices before entering the classroom. Place these items in your backpacks. I do not want to see them on your desk or in your laps. THIS MEANS NO TEXTING DURING CLASS! I reserve the right to ask you to leave class if I catch you texting.
- Please refrain from carrying on personal conversations once class has started. Be courteous to your peers when they are responding in class by listening to what they have to say.
- You are not given a grade in a college course; you EARN your grade. It is your responsibility to put in as much effort as it takes to earn this grade. This includes utilizing (as needed) all available study aid options (my office hours, the Math Lab, reading outside texts, etc.) to resolve any questions or concerns you might have about any aspect of the course.

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.

Feel free to come by my office at any time for help. I will definitely be near my office during my office hours (or there will be a note telling you when I will be back). If my office hours are not convenient for you, meet with me, or send me an email, to arrange for another time that is more convenient.

**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  
Houston Harte University Center 112  
325-942-2047  
dallas.swafford@angelo.edu

**Title IX**

Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. Sex discrimination, sexual misconduct, public indecency, interpersonal violence, sexual assault, sexual exploitation, sexual harassment, and stalking are not tolerated at ASU. As a faculty member, I am a Responsible Employee meaning that I will report any allegations I am notified of to the Office of Title IX Compliance in order to connect students with resources and options in addressing the allegations reported. You are encouraged to report any incidents to ASU’s Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator. You may do so by contacting:

Michelle Boone, J.D.  
*Director of Title IX Compliance/Title IX Coordinator*  
Mayer Administration Building, Room 200  
325-942-2022  
michelle.boone@angelo.edu

You may also file a report online 24/7 at [www.angelo.edu/incident-form](http://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.*
The Office of Title IX Compliance also provides accommodations related to pregnancy (such as communicating with your professors regarding medically necessary absences, modifications required because of pregnancy, etc.). If you are pregnant and need assistance or accommodations, please contact the Office of Title IX Compliance utilizing the information above. For more information about Title IX in general you may visit www.angelo.edu/title-ix.

**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 Day³ 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 Procedures⁴ 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 Integrity⁵

**Plagiarism:** Plagiarism is a serious topic covered in ASU’s Academic Integrity policy⁶ 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 Center⁷.

**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.

**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**
  - Inductive and deductive reasoning; patterns; problem solving
- **Chapter 2: Introduction to Logic and Sets**
  - Sets; operations on sets; Venn diagrams
- **Chapter 3: Numeration Systems and Whole Number Operations**
  - 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**
  - Factors; divisibility; prime and composite numbers; common factors and multiplies
- **Chapter 5: Integers**
  - Addition, subtraction, multiplication, and division of integers; properties of integer operations
- **Chapter 6: Rational Numbers and Proportional Reasoning**
  - Rational numbers; addition, subtraction, multiplication, and division of rational numbers; properties, estimation, and error patterns with rational numbers.
- **Chapter 7: Rational Numbers as Decimals and Percents**
  - Place value, estimation, and mental computation; decimal arithmetic and error patterns; rational, irrational, and real numbers.
- **Chapter 8: Real Numbers and Algebraic Thinking**
  - The real number system; functions.

**Subject Matter:** *(tentative schedule- subject to change)* The subject matter schedule listed below is tentative, and subject to change and adaptation. For current, updated information about course topics, contact the instructor or see Blackboard.

**Tentative Course Schedule**

<table>
<thead>
<tr>
<th>Day</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Syllabus, class expectations, problem solving</td>
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<tr>
<td>2</td>
<td>Problem solving, inductive and deductive reasoning</td>
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<tr>
<td>3</td>
<td>Problem solving, sequences</td>
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<tr>
<td>4</td>
<td>Sequences and patterns</td>
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<tr>
<td>5</td>
<td>Tactile equations, patterns, sets</td>
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<tr>
<td>6</td>
<td>Venn Diagrams, sets</td>
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<tr>
<td>7</td>
<td>Intro to numeration, review</td>
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<tr>
<td>8</td>
<td>Exam 1</td>
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<tr>
<td>9</td>
<td>Rounding, Numeration systems, addition models and properties</td>
</tr>
<tr>
<td>10</td>
<td>Numeration systems, subtraction and multiplication models and properties</td>
</tr>
<tr>
<td>11</td>
<td>Numeration systems, division models and properties</td>
</tr>
<tr>
<td>12</td>
<td>Review categories and properties, order of operations, base 5</td>
</tr>
<tr>
<td>13</td>
<td>Base 5/Base 10, numeration review</td>
</tr>
<tr>
<td>14</td>
<td>Intro to number theory, review</td>
</tr>
<tr>
<td>15</td>
<td>Addition/subtraction algorithms, number theory Exam 2</td>
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<tr>
<td>16</td>
<td>Exam 2</td>
</tr>
<tr>
<td>17</td>
<td>Multiplication/division algorithms, prime factorization, divisibility</td>
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<tr>
<td>Day</td>
<td>Topic</td>
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<tr>
<td>18</td>
<td>Prime numbers, prime factor test, GCF, LCM</td>
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<tr>
<td>19</td>
<td>GCF, LCM, Fraction intro</td>
</tr>
<tr>
<td>20</td>
<td>Fractions with pictures, Cuisenaire rods, pattern blocks, and counters</td>
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<tr>
<td>21</td>
<td>Fraction strips, traditional fraction algorithms, review</td>
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<tr>
<td>22</td>
<td>Exam 3</td>
</tr>
<tr>
<td>23</td>
<td>Fractions, decimal intro</td>
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<tr>
<td>24</td>
<td>Decimals</td>
</tr>
<tr>
<td>25</td>
<td>Fraction and decimal conversions</td>
</tr>
<tr>
<td>26</td>
<td>Real numbers, Integers, review</td>
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<tr>
<td>27</td>
<td>Integers</td>
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<tr>
<td>28</td>
<td>Exam 4</td>
</tr>
<tr>
<td>29</td>
<td>Review for the Final Exam</td>
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<tr>
<td>30</td>
<td>Review for the Final Exam</td>
</tr>
<tr>
<td>31</td>
<td>Final Exam- Tuesday, 5/7 at 8:00 am</td>
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</tbody>
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2 [http://www.angelo.edu/catalogs/](http://www.angelo.edu/catalogs/)  
3 [http://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of](http://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of)  
4 [http://www.angelo.edu/content/files/14197-op-1011-grading-procedures](http://www.angelo.edu/content/files/14197-op-1011-grading-procedures)  
7 [http://www.angelo.edu/dept/writing_center/academic_honesty.php](http://www.angelo.edu/dept/writing_center/academic_honesty.php)