MATH 1350 – 500 Introduction to Mathematics for Elementary Teachers
Summer 1 2023 Syllabus and Course Policy

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Email: lopezas@sfasu.edu
Office: Math 328

Class meeting time and place: Online through d2l

Office Hours: Office hours are held on Zoom by appointment. Please email me to set up a Zoom appointment when you would like to meet. Please use the following Zoom Meeting ID for office hours.

Link to join office hours: https://sfasu.zoom.us/my/asegura (Meeting ID: asegura)

Course Description
• Elementary concepts of sets, numeration systems, number theory, and properties of the natural numbers, integers, rational, and real number systems with an emphasis on problem solving and critical thinking.

Current Text and Materials
The textbook for this course is:
• YOU WILL NOT NEED TO PURCHASE ACCESS TO MYMATHLAB.
• We will use the Class activities from the 6th edition (all required class activities are posted in a module called Class Activities 6th edition under the content tab in D2L)

Course Requirements:
• D2L access. You will be required to access D2L (at http://d2l.sfasu.edu). You will need reliable internet access and a good computer. Access to a printer is recommended.
• Active participation through completing homework assignments, online quizzes, discussion boards, class activities and asking questions is expected. This course is taught with an emphasis on inquiry rather than lecture. Learning within this framework requires completing classroom activities and creating a deep understanding of the material.
• Reading the textbook is essential to the learning process and is expected. You should read the sections covered in each module carefully before attempting class activities and homework problems. It will likely be necessary to read each section more than once. Reading Application Quizzes will be assigned and completed on d2l.
• Working homework problems from the textbook is essential to the learning process and is expected. Homework is collected for grading. Scan handwritten pages and upload 1 PDF document, oriented correctly, to the appropriate D2L Dropbox. Please make sure to read feedback given by the professor after your homework has been graded. Late work is not accepted.
• There will be one 2 hour midterm exam during the semester and a 2 hour comprehensive final exam given at the end of the semester. These exams will be accessed through d2l under the course tools tab “Quizzes”. For each exam, you will be required to work out each problem that requires work on the exam on a piece of paper(s) and then upload all of your written work on the exam to a d2l Dropbox that will be labeled with the exam name. Your grade for the exam will be calculated based on points received from written work turned into the Exam Dropbox and points received for the parts of the questions that are answered in d2l.
• You will not be allowed to access a website or ask other people for help on the exam. Once you complete each exam, you will only have 10 minutes to upload your written work for the exam to the drop box on d2l for the exam. IF I SUSPECT CHEATING, I RESERVE THE RIGHT TO REQUIRE YOU TO “ZOOM” WITH ME AND EXPLAIN YOUR ANSWERS.
• Initiative to seek help through emails, ZOOM meetings, or the AARC if necessary, in order to succeed in the course.
Attendance Policy
Attendance and participation are expected. This course is taught with an emphasis on inquiry rather than lecture. You will be required to participate in discussion posts and other online activities as part of your grade.

- Late work is not accepted.
- Exams may be taken before the scheduled time if the rescheduling is approved beforehand with documentation of a valid university sanctioned excuse. Exams will not be given late.
- The university’s Attendance and Excused Absences Policy can be found at http://www.sfasu.edu/policies/class_attendance_excused_abs.asp

Making Your Homework Easy to Read and Easy to Grade

- Make sure your handwriting and any drawings are legible.
- Write your name in the upper right-hand corner of each page.
- Problems should be clearly labeled and numbered on the left side of the page. There should also be a visible separation between problems.
- To ensure that each problem is graded, problems and solutions should be written in the order that they are assigned.
- It is good practice to first work out the solutions to homework problems on scratch paper, and then to neatly write up your solutions. This will help you turn in a clean finished product.
- You should write up your solutions by yourself. You should always acknowledge any help received at the top of the assignment or in the right-hand margin.
- Take advantage of the instructor by emailing questions or coming to office hours.

Academic Integrity:

Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism. The penalty for a student found cheating on any part of an assignment, quiz, or exam in this class will range from a grade of zero on the work to a grade of F in the course, and may result in additional, more severe disciplinary measures. A student who allows another to copy his work and the student copying the work are both guilty of cheating. Do your own work. Do not show your completed work to others. Do not allow others to copy your work.

Definition of Academic Dishonesty (SFA policy 4.1):

Academic dishonesty includes both cheating and plagiarism. Cheating includes, but is not limited to:

- using or attempting to use unauthorized materials on any class assignment or exam;
- falsifying or inventing of any information, including citations, on an assignment;
- helping or attempting to help other student(s) in an act of cheating or plagiarism.

Plagiarism is presenting the words or ideas of another person as if they were one’s own. Examples of plagiarism include, but are not limited to:

- submitting an assignment as one’s own work when it is at least partly the work of another person;
- submitting a work that has been purchased or otherwise obtained from the Internet or another source;
- incorporating the words or ideas of an author into one’s paper or presentation without giving the author credit.

If your professor suspects academic dishonesty has taken place, the professor holds the right to ask the student to complete the assignment orally at the time of the professor’s choosing to confirm the student’s work is truly their work. The penalty for a student found cheating on any part of an assignment, quiz, or exam in this class will range from a grade of zero on the work to a grade of F in the course, and may result in additional, more severe disciplinary measures.
Grading and Exams
There will be one 2 hour midterm exam given during the semester and a 2 hour comprehensive final exam given at the end of the semester.
Your course grade will be calculated as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Problem Solving Discussions</th>
<th>Reading Application Quizzes</th>
<th>Homework</th>
<th>Midterm Exam June 16th</th>
<th>Final Exam June 30th</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percentage</td>
<td>5%</td>
<td>5%</td>
<td>30%</td>
<td>30%</td>
<td>30%</td>
</tr>
</tbody>
</table>

When I calculate your final grade at the end of the course, I will calculate a score on a 0-100 point scale using the scores that you have obtained during the course, and the grade breakdown below:

<table>
<thead>
<tr>
<th>Numerical Grade:</th>
<th>0-59</th>
<th>60-69</th>
<th>70-79</th>
<th>80-89</th>
<th>90-100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corresponding Letter:</td>
<td>F</td>
<td>D</td>
<td>C</td>
<td>B</td>
<td>A</td>
</tr>
</tbody>
</table>

Exam Policy
Exams in this course must be taken on d2l during the dates listed under the Tentative Calendar for this course. Exams are scheduled far in advance. No late exams will be given. A student will be allowed to take the exam prior to the scheduled time for one of the following reasons (#1-#4 listed below) and the student must provide proper documentation and must contact the Office of Students Rights and Responsibilities:

1. A medical excuse. Please provide proper documentation according to university policy.
2. A University sponsored event such as an athletic tournament, a play, or a musical performance. Your coach or director must contact us in advance. Athletic practices and rehearsals do not fall into this category.
3. A religious holiday. Please send a short email explaining the situation.
4. Extreme hardship such as a family emergency. Please have the proper university office notify us.

The previous list are the only allowable excuses for taking an exam before the scheduled time. Under no circumstances will an exam be administered late.

You must take the exams at the scheduled exam time. (See tentative calendar below.) You will find the exams under the “Course Tools” tab under the selection “Quizzes”. Please email me immediately if you cannot find the exams. Realize that you will only be given two hours to take the midterm and two hours to take the final exam. You will be responsible for uploading your written work on the exam (within 10 minutes of completing the exam) to the appropriate DropBox for the exam. Please upload a single PDF file. Do not upload files in any other form (.doc, .jpeg, .HEIC). You will be allowed to use your book, notes, and a calculator on the exam but cannot get any other help on the exam, including but not limited to a website or another person. There will be NO make-up exams. All exams are mandatory.

Class Environment
The format for this course will probably be different from your previous math classes. Students spend time working, discussing, and explaining problems. You should not expect that the instructor will lecture, or that you will have a clearly defined set of notes or PowerPoint slides. Getting used to this format requires some time, so be patient. I will send emails to the entire class during the course. Remember to be respectful and kind to your classmates as you interact online. Check your sfasu email and d2l accounts daily.
The following is an excerpt from SFA Policy 5.4:

The federal definition of a credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates:

1. Not less than one hour of classroom or direct faculty instruction and a minimum of two hours out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or 10 to 12 weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time, or;
2. At least an equivalent amount of work as outlined in item 1 above for other academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.

To this end, all students in courses offered by the Department of Mathematics and Statistics that wish to be successful should plan to spend a minimum of two hours outside of class for every credit hour associated with this course. Expected activities to be completed in the time outside of class include reviewing notes from previous class meetings, reading assigned course resources, completing all assigned exercises and projects, and performing periodic assessment preparation.

See [http://www3.sfasu.edu/math/docs/syllabi/MATH1351Syllabus.pdf](http://www3.sfasu.edu/math/docs/syllabi/MATH1351Syllabus.pdf) for elements common to all sections.

Mental Health:

SFASU values students’ mental health and the role it plays in academic and overall student success. SFA provides a variety of resources to support students mental health and wellness. Many of these resources are free, and all of them are confidential.

<table>
<thead>
<tr>
<th>Crisis Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burke 24-hour crisis line: 1(800) 392-8343</td>
</tr>
<tr>
<td>Suicide Prevention Lifeline: 1(800) 273-TALK (2735)</td>
</tr>
<tr>
<td>Crisis Text Line: Text HELLO to 741-741</td>
</tr>
</tbody>
</table>

**On-campus Resources:**

1. SFASU Counseling Services
   
   [www.sfasu.edu/counselingservices](http://www.sfasu.edu/counselingservices)
   
   3rd Floor Rusk Building. (936)468-2401

2. SFASU Human Services Counseling Clinic
   
   [www.sfasu.edu/humanservices/139.asp](http://www.sfasu.edu/humanservices/139.asp)
   
   Human Services Room 202. (936)468-1041
## Getting Started Module

- All remaining items on Checklist
- Complete Course Structure Quiz with 100% score to move on to Introduction module
- **Introduction Module**
  - All remaining items on Checklist
  - All remaining items on Checklist
  - Discussions Due: Student Intro, House Paint problem
  - Dropbox Due: Scanning Practice

### Due Wednesday, May 31st 11:59 PM

### Numbers and the Base-10 System Module

- Read textbook sections:
  - 1.1. The Counting Numbers (6th edition)
  - 1.2 Decimals (6th edition)
  - 1.4 Reasoning about Rounding (6th edition)
- **Quiz Due:** Chapter 1 Reading Application Quiz
- Class Activities (All class activities are from the 6th edition and can be found in a module called "Class Activities"):
  - 1C
  - 1D
  - 1G
  - 1H
  - 1I
  - 1N (#1,2,3,4)
  - 1Q
  - 1R
- Homework from textbook (turned in via D2L dropbox):
  - Section 1.1 #3 p. 23, 6th edition. (practice only, not to be turned in)
  - **Section 1.2:** p. 38 #15, 6th edition
  - Section 1.4: pp. 51-52 #4, 6th edition (practice only, not to be turned in)
- All remaining items on Checklist

### Due Friday, June 2nd 11:59 PM

### Fractions Module

- Read textbook sections
  - 2.1 Defining and Reasoning about Fractions (6th edition)
  - 2.2 Reasoning about Equivalent Fractions (6th edition)
  - 2.3 Reasoning to Comparing Fractions (6th edition)
- **Quiz Due:** Chapter 2 Reading Application Quiz
- Class Activities (All class activities are from the 6th edition and can be found in a module called "Class Activities"):
  - 2B
  - 2D
  - 2E
  - 2G
  - 2I
  - 2L
  - 2M
  - 2O

### Due Tuesday, June 6th 11:59 PM
• Homework from textbook (turned in via D2L dropbox):
  •  **Section 2.1: #7 p. 65 (6th edition)**
  •  Section 2.1 #5, #6, #10 pg 64-65 (6th edition) (practice only, not to be turned in)
  •  **Section 2.2 p. 76 #17 (6th edition)**
  •  Section 2.2 #15 pg.76 (6th edition) (practice only, not to be turned in)
  •  Section 2.3 p. 85 #12 (6th edition) (practice only, not to be turned in)

• All remaining items on Checklist
•  **Discussions Due: Unit Fraction problem, Ken problem**

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• Addition and Subtraction Module
  • Read textbook sections
    • 3.1 Interpretations of Addition and Subtraction (6th edition)
    • 3.4 Reasoning About Fraction Addition and Subtraction (6th edition)
  • Class Activities (All class activities are from the 6th edition and can be found in a module called "Class Activities")::
    • 3D
    • 3E
    • 3F
    • 3G
    • 3I
    • 3J
    • 3K
    • 3O
    • 3P
    • 3Q
    • 3R

• Homework from textbook (turned in via D2L dropbox):
  •  **Section 3.1: p. 110: #5 (6th edition) (give type only, not subtype)**
  •  Section 3.1: p. 110: #6 (6th edition) (practice only, not to be turned in) *** Also draw a strip diagram for each word problem in #6 and give the situation equation and solution equation for each word problem in #6
  •  **Section 3.2: p. 122: #3 (6th edition)**
  •  **Section 3.3: pg. 130: #2, #3 (6th edition)**
  •  **Section 3.4: pg. 141: #10 #12 (6th edition)**

• All remaining items on Checklist
•  **Discussions Due: Tomaslav problem, Denise problem**
- **Multiplication Module, Part 1**
  - Read textbook sections:
    - 4.1 Interpretations of Multiplication (6th edition)
    - 4.2 Why Multiplying by 10 is Special in Base Ten (6th edition)
    - 4.3 The Commutative and Associative Properties of Multiplication, Areas of Rectangles and Volumes of Boxes (6th edition)
  - Quiz Due: Chapter 4 Part 1 Reading Application Quiz
  - Class Activities (All class activities are from the 6th edition and can be found in a module called "Class Activities"):
    - 4B
    - 4C
    - 4D
    - 4E
    - 4F
    - 4G
    - 4H
  - Homework from textbook (turned in via D2L dropbox):
    - Section 4.1: p. 161: #7ab (6th edition)
    - Section 4.3: p. 177 #10 (6th edition)
  - All remaining items on checklist

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**MIDTERM EXAM** covers Getting Started Module, Numbers and Base 10 System Module, and Fraction Module, and Addition and Subtraction Module, Multiplication Module Part 1 (Chapter 1 (sections 1.1-1.4), Chapter 2 (sections 2.1-2.3), Chapter 3 (sections 3.1-3.4), and Chapter 4 (sections 4.1-4.3)

**Must be completed June 16th between 6 am and 11:59 pm.** (Your exam will be on D2L (under course tools, under quizzes) and you will have 2 hours to complete the exam once you start the exam. You will have 10 minutes after you complete the exam to upload your pencil and paper work to the drop box on D2L for the MIDTERM EXAM. Your exam grade will be calculated based on the points you receive on the written work you submit and the points you receive from the D2L portion.)

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- **Multiplication Module, Part 2**
  - Read textbook sections:
    - 4.4 The Distributive Property (6th edition)
    - 4.6 Why the Standard Algorithm for Multiplying Whole Numbers Works (6th edition)
  - Quiz Due: Chapter 4 Part 2 Reading Application Quiz
  - Class Activities (All class activities are from the 6th edition and can be found in a module called "Class Activities"):
    - 4J
    - 4K
    - 4M
    - 4N (#1,2,4)
    - 4P (#1,2,6)
    - 4Q
  - Homework from textbook (turned in via D2L dropbox):
    - Section 4.4: p. 187 #4 (6th edition) (for practice, not turned in for a grade)
    - Section 4.5: p. 196: #4 (6th edition)
    - Section 4.6: pg. 205: #10 (parts A,B, and D), #11 (parts A,B, and C) (6th edition)
  - All remaining items on Checklist

- **Discussions Due: Ted problem**
• Fraction Multiplication Module
  o Read textbook sections
    ▪ 5.1 Making Sense of Fraction Multiplication (6th edition)
  o Class Activities (All class activities are from the 6th edition and can be found in a module called "Class Activities"):
    ▪ 5A
    ▪ 5B
    ▪ 5D
    ▪ 5E
  o Homework from textbook (turned in via D2L dropbox):
    ▪ Section 5.1: pp. 216-218: #3 (6th edition)
  o All remaining items on Checklist

• Decimal Multiplication Module
  o Read textbook sections
    ▪ 5.2 Making Sense of Decimal Multiplication (6th edition)
  o Class Activities (All class activities are from the 6th edition and can be found in a module called "Class Activities"):
    ▪ 5G
    ▪ 5H
    ▪ 5I (5i)
    ▪ 5J
  o Homework from textbook (turned in via D2L dropbox):
    ▪ Section 5.2: pp. 223-224 #3
    ▪ Section 5.2: pp. 223-224 #10 (6th edition) (practice only, not to be turned in)
  o All remaining items on Checklist

• Division Module, Part 1
  o Read textbook sections:
    ▪ 6.1 Interpretations of Division (6th edition)
    ▪ 6.2 Division and Fractions and Division with Remainder (6th edition)
    ▪ 6.3 Why Division Algorithms Work (5th or 6th edition)
  o Quiz Due: Chapter 6 Part 1 Reading Application Quiz
  o Class Activities (All class activities are from the 6th edition and can be found in a module called "Class Activities"):
    ▪ 6A
    ▪ 6B
    ▪ 6C
    ▪ 6D
    ▪ 6F
    ▪ 6H
    ▪ 6I
    ▪ 6J
    ▪ 6K
  o Homework from textbook (turned in via D2L dropbox)
    ▪ Section 6.1 #1 (parts a to j) pp. 246-247 (6th edition)
    ▪ Section 6.2 pp. 253-255, #3 (6th edition) (practice only, not to be turned in)
    ▪ Section 6.3 pp. 266-269 #2, #3 (6th edition) For #2 and #3, label all numbers in the division problem.
  o All remaining items on Checklist
  o Discussions Due: Improper fraction discussion, Choosing correct answer form discussion #10 pg. 255, 6th edition)
<table>
<thead>
<tr>
<th>Due Monday, June 26th 11:59 PM</th>
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</thead>
<tbody>
<tr>
<td><strong>Division Module, Part 2</strong></td>
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<tr>
<td>o Read textbook sections:</td>
</tr>
<tr>
<td>• 6.6 Dividing Decimals (6th edition)</td>
</tr>
<tr>
<td>o <strong>Quiz Due: Chapter 6 Reading Application Quiz</strong></td>
</tr>
<tr>
<td>o Class Activities (All class activities are from the 6th edition and can be found in a module called &quot;Class Activities&quot;):</td>
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<td>• 6T</td>
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<tr>
<td>• 6U</td>
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<tr>
<td>o Homework from textbook (turned in via D2L dropbox):</td>
</tr>
<tr>
<td>• Section 6.6 pp. 294-295 #3 (6th edition) (for practice only- do not turn in for a grade)</td>
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<td>o All remaining items on Checklist</td>
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<table>
<thead>
<tr>
<th>Due Wednesday, June 28th 11:59 PM</th>
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<tbody>
<tr>
<td><strong>Number Theory Module</strong></td>
</tr>
<tr>
<td>• Read textbook sections:</td>
</tr>
<tr>
<td>• 8.1 Factors and Multiples (6th edition)</td>
</tr>
<tr>
<td>• 8.2 Even and Odd (6th edition)</td>
</tr>
<tr>
<td>• 8.3 Divisibility Tests (6th edition)</td>
</tr>
<tr>
<td>• 8.4 Prime Numbers (6th edition)</td>
</tr>
<tr>
<td>• <strong>Quiz Due: Number Theory Vocabulary Quiz</strong></td>
</tr>
<tr>
<td>• Class Activities (All class activities are from the 6th edition and can be found in a module called &quot;Class Activities&quot;):</td>
</tr>
<tr>
<td>• 8A</td>
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<tr>
<td>• 8B</td>
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<tr>
<td>• 8D</td>
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<tr>
<td>• 8E</td>
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<td>• 8G</td>
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<tr>
<td>• 8H</td>
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<tr>
<td>Homework from textbook (turned in via D2L dropbox):</td>
</tr>
<tr>
<td>• Section 8.1 p. 358 #4 (6th edition) (for practice, not turned in for a grade)</td>
</tr>
<tr>
<td>• Section 8.2 pp. 361-362 #5 (6th edition) (for practice, not turned in for a grade)</td>
</tr>
<tr>
<td>• Section 8.4 pp. 373-374 #3 (6th edition) (for practice, not turned in for a grade)</td>
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<tr>
<td>o All remaining items on Checklist</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>JUNE 30th (beginning at 6 am and ending at 11:59 pm)</th>
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</thead>
<tbody>
<tr>
<td><strong>Final Exam, comprehensive (Chapters 1,2,3,4,5,6, and 8)</strong></td>
</tr>
<tr>
<td><em>Must be completed JUNE 30th between 6 am and 11:59 pm. (Your exam will be on D2L (under course tools, under quizzes) and you will have 2 hours to complete the exam once you start the exam. You will have 10 minutes after you complete the exam to upload your pencil and paper work to the drop box on D2L for the FINAL EXAM. Your exam grade will be calculated based on the points you receive on the written work you submit and the points you receive from the D2L portion.)</em></td>
</tr>
</tbody>
</table>