Course Description: Elementary concepts of geometry and measurement, probability, and on problem solving and critical thinking.

Course Prerequisites: MTH 127

Course Time and Meeting Place: Online at https://d2l.sfasu.edu

Instructor: Lorna De Sha- Department of Mathematics and Statistics
- Email: deshald@sfasu.edu I will respond to emails within 24 hours on weekdays and 48 hours on the weekends when you email using the sfasu email.
- Office Hours: By appointment through ZOOM

Current Text and Materials
- A compass used for drawing circles, scissors and ruler (straight edge) are required for the activities and exams.
- A scientific or graphing calculator with a pi and square root key is needed in this course. However, you should not rely on computers and/or calculators to such an extent that they keep you from developing your own skills. Technology should be used as an aid, but without a good understanding of the underlying mathematical concepts, the calculator will quite happily mislead you without your even knowing it. In general, technology is a good thing, but as with everything, sometimes too much of a good thing can lead to problems. For this reason, you may not be allowed to use calculators on certain exams or parts of certain exams.
- The textbook for this course is: Mathematics for Elementary Teachers, Beckmann 0321901231 Pearson 5th

Course Goals
- To understand the mathematics essential to successful teaching in the elementary school classroom.
- To acquire a foundation in geometry, statistics, probability, and counting.
- To gain skill in problem solving and critical thinking.

Course Requirements:
- D2L access. You will be required to access D2L (at http://d2l.sfasu.edu) and read and complete assignments and quizzes through the D2L system. You should logon daily to participate in required/graded course discussions and to check for announcements, updates, and email messages from the instructor
- Reading the textbook is essential to the learning process and is expected. You should read the sections covered in each module carefully before attempting investigations, discussions, and/or homework problems. It will likely be necessary to read each section more than once.
- Active participation through discussion boards are expected. This course is taught with an emphasis on inquiry rather than lecture. Learning within this framework requires completing classroom activities and discussing the activities on the required discussion boards.
- Discussion board posts (required/graded) on mathematical concepts or class activities from the required textbook are an important learning tool and should be completed by each student. You are encouraged to work together and discuss these activities. Content covered within the class activities will be assessed/tested. Students are required to participate in discussion board posts about class activities; although, the class activity work is not otherwise graded
- 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 to the appropriate D2L Dropbox. Discussion board posts regarding homework problems are not required.
Non-textbook assignments provided by the instructor, covering mathematical concepts, classroom connections, and teaching and learning standards. These are short writing assignments submitted online through D2L Dropboxes.

Additional assignments at the instructor’s discretion.

A midterm exam lasting 2 hours and final exam lasting 2.5 hours will be administered through a D2L quiz. Written work will be scanned as 1 PDF and uploaded to a specified drop box folder in D2L. The dates for the exams are listed in the chart below and in the Course Timeline in the Getting Started module.

Midterm exam corrections is an assignment in which you rework any exam questions for which you lost credit. Errors should also be classified according to the instructor’s criteria. This assignment should be submitted in writing scanning handwritten pages as 1 PDF. This assignment may be returned to you for editing. Credit for this assignment will not be awarded until all errors are completely corrected. This assignment is classified as “online work” and will not alter your exam grade.

There is NO extra credit in this course.

Initiative to seek help through emails, ZOOM meetings or the AARC may be necessary in order to succeed in the course.

Attendance Policy

You should logon to the D2L system daily to post to discussion boards and to check for email messages, announcements, and updates.

This course is taught with an emphasis on inquiry rather than lecture. You will be required to participate in discussion posts and other activities online as part of your grade.

Late work is not accepted.

Exam make-ups must be approved beforehand with documentation of a valid university sanctioned excuse.

The university’s Attendance and Excused Absences Policy can be found at [http://www.sfasu.edu/policies/class_attendance_excused_abs.asp](http://www.sfasu.edu/policies/class_attendance_excused_abs.asp)

The Online 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-type slides. Instead, you and your classmates will construct your own knowledge with the professor facilitating discussions and asking questions. Getting used to this format requires some time, so be patient.

The instructor will ask many questions. These are not rhetorical questions. These questions are asked so that you can develop deeper understanding of the course content.

I will send emails to the entire class and/or make News Feed announcements during the course. Check your D2L email and New Feed daily.

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.

Individual and group help is available online through the Academic Assistance and Resource Center (AARC).

Take advantage of the instructor by emailing questions or setting up appointment(s) for ZOOM meeting(s).
Grading and Exams
There will be a 2 hour midterm exam and a 2.5 hour final exam. The exams will be administered through a quiz in D2L with written work scanned as 1 PDF document and uploaded to a specified drop box within 10 minutes of submitting the exams. The window of dates for taking the exam are specified Course Timeline in the Getting Started module listed in the table below. Your course grade will be determined as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Date</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>Discussion Posts, Written homework problems submitted online, D2L quizzes, additional assignments from instructor</td>
<td>30%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>The quiz for exam administration will be July 22</td>
<td>35%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>The quiz for exam administration will be August 7</td>
<td>35%</td>
</tr>
</tbody>
</table>

Semester numerical scores will be converted into letter grades according to the following method.

<table>
<thead>
<tr>
<th>Range of numerical values</th>
<th>Corresponding Letter</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>80-89</td>
<td>B</td>
</tr>
<tr>
<td>70-79</td>
<td>C</td>
</tr>
<tr>
<td>60-69</td>
<td>D</td>
</tr>
<tr>
<td>0-59</td>
<td>F</td>
</tr>
</tbody>
</table>

Exam Policy
Exams in this course will be administered through a quiz in D2L during the specified time period listed in the table above and in the Course Timeline in the Getting Started module. Each exam will have an online and written component. After opening the quiz you will have 2 hours to complete the midterm exam and 2.5 hours to complete the final exam. The written work will be scanned and uploaded to a specified drop box as 1 PDF within 10 minutes of submitting the quiz. Exams must be taken within the range of dates listed above. There should be no reason to miss an exam other than:

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 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://www2.sfasu.edu/math/docs/syllabi/MTH127Syllabus.pdf](http://www2.sfasu.edu/math/docs/syllabi/MTH127Syllabus.pdf) for elements common to all sections.