MTH 127.500 – Summer II 2020
Introduction to Mathematics for Elementary Teachers

Course Description
Elementary concepts of sets, numeration systems, number theory, and properties of natural numbers, integers, rational, and real number systems with an emphasis on problem solving and critical thinking. 
http://www2.sfasu.edu/math/courses/syllabi/MTH127Syllabus.pdf

Course Prerequisites
Two years of high school algebra and one year of high school geometry.

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

Instructor
- Stacia Prince
  Department of Mathematics and Statistics
- Email: princes@sfasu.edu
  Expect to receive response to email within 24 hours on weekdays and 48 hours on the weekends when using the princes@sfasu.edu email.
- Office Hours: By appointment or anytime my door is open.

Current Text and Materials
The textbook for this course is 
Mathematics for Elementary Teachers, Beckmann 0321901231 Pearson 5th

*** You will need a collection of approximately 1000 toothpicks and 30 rubber bands to complete required activities.

Course Goals
- To understand the mathematics essential to successful teaching in the elementary school classroom.
- To acquire a foundation in numeration systems, number theory and properties of the natural numbers, integers, rational, and the real number system.
- To gain skill in problem solving and critical thinking.

Course Requirements:
- A midterm exam and final exam each lasting 2.5 hours, dates listed below
- D2L access. You will be required to access SFA’s Learning management Software(at https://d2l.sfasu.edu) daily
- Homework from the textbook will be uploaded via dropbox and graded. Read the homework grading police as found on D2L carefully.
- Attendance and participation are expected. This course is taught with an emphasis on inquiry rather than lecture. Learning within this framework requires active participation
- Reading the textbook is essential to the learning process and is expected. You should read the section to be covered carefully before attempting investigations, discussions, or homework problems. It will likely be necessary to read each section more than once.
- Additional assignments at the instructor’s discretion
- There is NO extra credit
- Initiative to seek help outside of class, through ZOOM, or the AARC may be necessary in order to succeed in the course
Calculators
Calculators will not be used in this course. The mathematics we cover is at the elementary level, and most of our time will be spent on understanding and explaining content deeply. Teacher candidates should be fluent in all required computations. Ask for help if you need it and be prepared to spend additional time outside of class practicing computations until you become comfortable doing them without a calculator.

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

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 two 2.5 hour exams during the semester. For each exam, you will log in to D2L during the dates and times specified in the Course Timeline. 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>Written homework problems submitted online, discussion posts, d2L quizzes, or other requires given by the instructor</td>
<td>30%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>The quiz for exam administration will open on July 21 at 8am and will close on July 22 at 11:59pm</td>
<td>35%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>The quiz for exam administration will open on August 6 at 8am and will close on August 7 at 11:59pm</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>

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 given above. Your course grade will then be obtained using this table. Due to the pace of a summer course, we will have only two exams and there is NO resurrection policy.

**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 previous list are the only allowable excuses for taking the exam before the scheduled time. Under no circumstances do we give late exams. Since we can only accommodate a limited number of students taking the exam at an earlier time, please make sure that you fall into one of the above categories before you contact us. If you miss an exam due to illness or a family emergency, you will not be penalized. The missed exam will be replaced with the final exam grade. If you have a conflict with the final exam (other than another exam at the same time), you must contact the Registrar. Only the Registrar can schedule an out-of-sequence final exam.

**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 for elements common to all sections.