MATH 3309: Foundations of Elementary Mathematics II
Sul Ross State University
Spring 2024

Professor: April Maria Ortiz, Ph.D.
What to Call Me: she / her / ma’am / Professor / Mrs. Ortiz / Dr. Ortiz
E-mail: april.ortiz@sulross.edu

Course Description MTH 3309 covers geometric concepts, probability, statistics, estimation, problem solving, and other related topics.

TEKS Information on the Texas Essential Knowledge and Skills can be found on the TEA website: http://www.tea.state.tx.us

Class Time Tuesday and Thursday, 9:30 – 10:45

Class Location Uvalde B113; online


Office Hours Tuesday / Thursday 2:00 – 3:00 and Monday / Wednesday 10:00 – 2:00; or by appointment; or basically whenever I’m not busy

Course Policies

Attendance Policy

Attendance is mandatory. If you are registered for the online section then you will need to be logged in with your camera turned on for attendance credit. You will be held responsible for all material covered in class or in the reading assignments. If you have to miss a class, it is your responsibility to obtain all notes, assignments, and announcements from someone else in the class. Make-up exams will be given only in the event of an emergency, in which case written justification and/or documentation must be provided and approved.

Communication

I will post course documents, reminders, announcements, and assignments on the Blackboard system. You will also submit homework on Blackboard. I may also occasionally send announcements via e-mail. You should make sure you know how to access and use these tools. You are welcome to e-mail, telephone, or text me. However you chose to contact me, please make sure to state your name at the beginning of any message.

You are welcome to stop by my office if you wish to speak about the content or your progress in the course. Sometimes meetings come up, so it's best to contact me ahead of time if you intend to travel to Uvalde to see me in person.

I am here to help you! Ask questions in class, call me, e-mail me, text me, or come to my office. If you don’t communicate with me, then I can’t help you.

Grading Policy
Your grades will be weighted as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation</td>
<td>10%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>35%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>55%</td>
</tr>
</tbody>
</table>

A student who averages at least 90% will receive an A; at least 80% will receive at least a B; at least 70% will receive at least a C; at least 60% will receive at least a D.

**Participation**

Your participation grade will be assigned depending on your class attendance and participation in class activities. Simply put, if you always come to class, seem like you're trying to pay attention and take notes, and take part in class activities, then you will get full credit.

**Homework**

Homework will be assigned for each section that we cover in the text. Although the homework will not be collected and graded, you should regard it as the most essential component of the course. It is very important that you complete each homework assignment before the next class period. This will allow you to make the most of our time together. If you have a question, ask about it. If you don't understand the homework, you are not ready to take the exam.

In order to achieve success in this course, you must work all the homework assignments in a timely manner! The amount of work for any college class is generally calculated as 3 hours of outside work for each hour in class. **That means you should expect to spend as much as 9 hours each week on outside work in this course.**

We will always discuss the homework in class. You should come to class prepared: make sure to have your textbook and suitable writing materials with you.

**Exams**

There will be one midterm exam. Its tentative date is Wednesday, March 6. This is subject to change. You will be notified of a change at least one week in advance. Make-up exams will be given only in the event of an emergency, in which case written justification and/or documentation must be provided and approved.

The comprehensive final exam will take place at the time scheduled by the university, during the final exam period at the end of the semester. Official time and date to be announced once the university publishes the final exam schedule.

---

**Subject Outline**

*Below is a tentative outline of the subjects we will cover in this course. Next to each topic section is the corresponding section from the textbook.*

1. Rational numbers and real numbers
4. Rational numbers (§§6.1,4): the rational number system – properties of arithmetic – the density property – applications
5. Decimals and real numbers (§§7.1 – 2): the decimal system – powers of ten – terminating decimals and fractions – repeating decimals and fractions – irrational numbers and real numbers – the number line – arithmetic with decimals

II. Statistics
2. Measuring the center and variation of data (§13.2): the mean – the median – the mode – upper and lower quartiles – outliers – box plots – the standard deviation

III. Probability (Chapter 14)
1. The basics of probability (§14.1): basic terminology – experimental probability – theoretical probability – the addition principle – complementary events
2. Odds and expected value (§14.4): odds – expected value

---

**Schedule**

This schedule is tentative only. The unit numbers refer to the above outline.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit I</td>
<td>January 18 – March 5</td>
</tr>
<tr>
<td><strong>Midterm Exam</strong></td>
<td><strong>March 7</strong></td>
</tr>
<tr>
<td>Unit III</td>
<td>March 18 – April 2</td>
</tr>
<tr>
<td>Unit IV</td>
<td>April 2 – 30</td>
</tr>
<tr>
<td>Unit V</td>
<td>April 10 – May 1</td>
</tr>
</tbody>
</table>
University Statements

**Distance Education Statement.** Students enrolled in distance education courses have equal access to the university’s academic support services, such as library resources, online databases, and instructional technology support. For more information about accessing these resources, visit the SRSU website.

Students should correspond using Sul Ross email accounts and submit online assignments through Blackboard, which requires a secure login. Students enrolled in distance education courses at Sul Ross are expected to adhere to all policies pertaining to academic honesty and appropriate student conduct, as described in the student handbook. Students in web-based courses must maintain appropriate equipment and software, according to the needs and requirements of the course, as outlined on the SRSU website. Directions for filing a student complaint are located in the student handbook.

**SRSU Accessibility Services.** Sul Ross State University (SRSU) is committed to equal access in compliance with the Americans with Disabilities Act of 1973. It is SRSU policy to provide reasonable accommodations to students with documented disabilities. It is the student’s responsibility to initiate a request each semester for each class. Students seeking accessibility/accommodations services must contact Mrs. Mary Schwartz Grisham, LPC, SRSU’s Accessibility Services Director at 432-837-8203 or email mschwartz@sulross.edu. Our office is located on the first floor of Ferguson Hall, room 112, and our mailing address is P.O. Box C122, Sul Ross State University, Alpine, Texas, 79832.

**Counseling Services.** Sul Ross has partnered with TimelyCare where all SR students will have access to nine free counseling sessions. You can learn more about this 24/7/356 support by visiting Timelycare/SRSU. The SR Counseling and Accessibility Services office will continue to offer in-person counseling in Ferguson Hall room 112 (Alpine campus), and telehealth Zoom sessions for remote students and RGC students.

**Libraries.** The Bryan Wildenthal Memorial Library in Alpine offers FREE resources and services to the entire SRSU community. Access and borrow books, articles, and more by visiting the library’s website, library.sulross.edu. Off-campus access requires logging in with your LoboID and password. Librarians are a tremendous resource for your coursework and can be reached in person, by email (srsulibrary@sulross.edu), or by phone (432-837-8123).

No matter where you are based, public libraries and many academic and special libraries welcome the general public into their spaces for study. SRSU TexShare Cardholders can access additional services and resources at various libraries across Texas. Learn more about the TexShare program by visiting library.sulross.edu/find-and-borrow/texshare or ask a librarian by emailing srsulibrary@sulross.edu.

Mike Fernandez, SRSU Librarian, is based in Eagle Pass (Building D-129) to offer specialized library services to students, faculty, and staff. Utilize free services such as InterLibrary Loan (ILL) and ScanIt to get materials delivered to you at home or via email.