Course Description Fractions and decimals, 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 Meetings Tuesday and Thursday, 1:00 – 4:45

Class Location Del Rio 107; Eagle Pass B112; Uvalde B114; or synchronous online.


Course Policies

Attendance Policy

Attendance is mandatory. Students are expected to attend class in person in their classroom of registration barring extenuating circumstances. Attendance contributes toward your participation grade. If you must attend remotely, you will need to have your webcam turned on unless permission is given otherwise.

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

The Blackboard system will be used to provide course materials, submit assignments, and post grades. You are welcome to e-mail, call, or text me at any time. My cell number is (830) 333-0164. Please identify yourself in your text or voicemail. Please make sure to check the e-mail address associated with Blackboard on a regular basis.

Class will be held through Lifesize, a web conferencing application. The extension and passcode will be provided on Blackboard. It works on a variety of devices.

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 20 hours each week on outside work in this course.

**Grading Policy**

Your grades will be weighted as follows:

- Participation: 20%
- Midterm Exam: 35%
- Final Exam: 45%

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.

**Exams**

There will be one midterm exam. It will be administered on Tuesday, June 21. This date is tentative. You will have two hours to complete the exam. Barring extenuating circumstances, you will be required to take the exam on campus, even if you regularly attend class remotely. There are exceptions, but it is much harder to qualify than for regular class days.

There will be a comprehensive final exam. It will be administered on Blackboard on Tuesday, July 5, from 1:00 – 4:45 p.m. The same policy applies.

**Subject Outline**

Below is a tentative outline of the subjects we will cover in this course. As time allows, we will also make excursions into the practical aspects of mathematics education among underserved populations in a region with limited access to educational resources.

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*

IV. Geometry (Chapters 9 – 10)

1. Figures in the plane (§9.1): *points and lines – distance – angles and triangles*


4. The measurement process (§10.1): *the measurement process – units – length – area – volume and capacity – weight and mass – temperature – unit analysis*

5. Area and perimeter (§10.2): *measurement of area – area of polygons – length of a curve – perimeter – circumference of a circle – area of a circle*

6. Volume and surface area (§§10.3 – 4): *volume of prisms, cylinders, pyramids, cones, and spheres – surface area of of prisms, cylinders, pyramids, cones, and spheres*

Students will reinforce and master competencies through homework assignments and in-class group homework discussions, and demonstrate mastery on exams.

---

**Schedule**

*This schedule is tentative only. The unit numbers refer to the above outline.*
Unit I  June 2 – 9
Unit II  June 9 – 16
Midterm Exam  June 21
Unit III  June 21 – June 23
Unit IV  June 23 – June 30
Independence Day Holiday  July 4
Final Exam  July 5

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 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 Disabilities Services: Sul Ross State University (SRSU) is committed to equal access in compliance with 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. RGC students seeking accessibility services should contact Paulette Harris, Executive Assistant to the Vice President and Dean, at 830-279-3023 or email pharris@sulross.edu. Ms. Harris's office is at 2623 Garner Field Road, Uvalde, TX 78801 (this is the mailing address, too).

University Libraries: The Sul Ross Library 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. SRSU RGC students may request InterLibrary Loans (ILLs) and book check outs from the Sul Ross Library to be picked up at the SWTJC library that is most convenient. Access requires your LoboID and password. Librarians are a tremendous resource for your coursework and can be reached in person, by email (srsulibrary@sulross.edu), or phone (432-837-8123).

The Southwest Texas Junior College (SWTJC) Library is also available on each campus for your physical use of the space or checking out books. Del Rio, Eagle Pass, and Uvalde students may use online resources available through SWTJC website, library.swtjc.edu. These libraries serve as pickup locations for your ILL or Document Delivery or book requests; to do so, choose the appropriate pick-up location when requesting materials from the Alpine campus.