

Sul Ross State University
Course Syllabus
MATH 3301-001/VMC: Geometry
Fall 2026

Instructor: Dr. Angela M. Brown

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Office Hours: 11-12 MTWR, 3:30-5 MW, others by appointment.

Time and Place of Class Meetings: TR 4:30-5:45 pm ACR 205

Course Prerequisites: Math 1314 or Math 1342 with a grade of C or better; or equivalent.

Mathematics Program Learning Objectives: The graduating student should be able to

- Apply knowledge of basic mathematics principles.
- Identify and provide valid proofs or solutions for theorems or problems.
- Recognize and dispute invalid mathematical statements by using counter-examples.

Marketable Skills:

Program - Mathematics BS

- Students Demonstrate Logical and Analytical Skills.
- Students Demonstrate Problem-Solving Using Analytic and Algebraic Methods.
- Students Use Technology in Problem-Solving and Presentation.
- Students Use Communication and Pedagogical Skills.

Course Objectives:

By the end of the course, the successful student will be able to:

- Improve their proof writing;
- understand axiomatic systems; E
- explore and compare Euclidean and non-Euclidean geometries;
- integrate technology into their coursework such as Geogebra.

Required Textbooks: *College Geometry: A Problem-Solving Approach With Applications*, 2nd Edition, Musser, Trimpe, and Maurer, ISBN 978-0-13-187969-0.

Other Equipment Needed: paper and pencils, compass and protractor and/or access to Geogebra.

Grading Scale: 90-100 A, 80-89 B, 70-79 C, 60-69 D, 59-Below F

Grading Policy: The grade weighting will be as follows:

Homework/In class assignments 20%

Exams: 45%

Projects/Activities: 15%

Final Exam: 20%

Homework/in Class Assignments: Homework and/or in class assignments will be assigned daily and will be turned in through Blackboard by the due date. All will be graded on completion and accuracy. Copying answers from the back of the book is plagiarism and will be prosecuted.

Projects/Activities: Projects or activities will consist of the investigations given in each chapter, interesting activities relating to the material and construction activities in Geogebra.

Exams: No make-up exams will be given. A missed exam can be replaced with the final exam if a sufficient reason is given. Exams will be in class, closed notes and book. Any restroom breaks need to be taken before an exam starts. You cannot leave the classroom in the middle of an exam under any circumstances, but you are allowed to leave as soon as you have completed the exam. If you are in the virtual section, your camera will have to be on for the full extent of the exam. If you are not comfortable with this, you will need to set up a time with the testing center at your current campus.

Final Exam Date: Monday December 7, 3:00-5:00 pm.

General Policies: You are expected to bring all necessary materials and take notes and participate. You are expected to turn-off and not to access any electronic, non-task oriented device such as cell/smart phones/pads and i-pods unless your textbook is on such a device. Again, a cell phone cannot be used as a calculator. Devices for recording the lecture are permitted; either audio or video, but unless there is a glitch, all lectures will be recorded and accessible through Blackboard. Any personal business must be conducted during office hours or by

appointment. I will only discuss grades and attendance issues in my office or an online meeting during office hours. Classroom time is for the entire class.

Attendance Policy: Students are expected to attend every class. If class must be missed, the student is expected to get the notes from a classmate, and to check with me or on Blackboard for announcements and updated assignments.

If you are attending through Collaborate, make sure your first name and at least last initial are visible while I take roll. Preference will be that your video is available, but please make sure you are properly dressed to attend class. Also, please have your mic muted unless you need to ask or answer a question. Preference is that you ask and answer questions out loud as I do not have good ability to switch to the chat.

You are expected to check your Sul Ross e-mail account. Absences due to school functions should be discussed with me ahead of time.

Students are expected to arrive to class on time. If a student is perpetually late, they will be asked to not attend class unless they arrive on time. If tardiness becomes a problem for the class as a whole, people who arrive late will not be permitted to enter the class. If this stricter policy becomes necessary, there will be an announcement made in class.

It is policy of the university to drop a student with a grade of "F" if 9 hours or more of class are missed. For this course that would be 6 or more class sessions missed.

Americans With Disabilities Act: 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. To help protect confidentiality, students seeking accessibility/accommodation(s) services must submit the Accommodation Request Form located on our website. Students are welcome to call the Office of Accessibility Services at 432-837-8203 or stop by Ferguson Hall Room 112 if they have any additional questions regarding the process. Our mailing address is PO Box C-122; Alpine, TX; 79832.

Counseling: Sul Ross has partnered with TimelyCare where all SR students will have access to nine free counseling sessions. You can learn more about this 24/7/365 support by visiting [Timelycare/SRSU](https://timelycare.com/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.

Library Services: The Bryan Wildenthal Memorial Library and Archives of the Big Bend in Alpine offer 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), ScanIt, and Direct Mail to get materials delivered to you at home or via email.

Distance Education Statement: Students enrolled in distance education courses have equal access to the university's academic support services, such as Smarthinking, 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 information to verify students' identities and to protect students' information. The procedures for filing a student complaint are included in the student handbook. 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.

Academic Integrity: Students in this class are expected to demonstrate scholarly behavior and academic honesty in the use of intellectual property. A scholar is expected to be punctual, prepared, and focused; meaningful and pertinent participation is appreciated. Examples of academic dishonesty include but are not limited to: Turning in work as original that was used in whole or part for another course and/or professor; turning in another person's work as one's own; copying from professional works or internet sites without citation; collaborating on a course assignment, examination, or quiz when collaboration is forbidden.

Required Student Responsibilities Statement

All full-time and part-time students are responsible for familiarizing themselves with the Student Handbook and the Undergraduate & Graduate Catalog and for abiding by the University rules and regulations. Additionally, students are responsible for checking their Sul Ross email as an official form of communication from the university. Every student is expected to obey all federal, state and local laws and is expected to familiarize themselves with the requirements of such laws.

Classroom Climate of Respect: Importantly, this class will foster free expression, critical investigation, and the open discussion of ideas. This means that all of us must help create and sustain an atmosphere of tolerance, civility, and respect for the viewpoints of others. Similarly, we must all learn how to probe, oppose and disagree without resorting to tactics of intimidation, harassment, or personal attack. No one is entitled to harass, belittle, or discriminate against another on the basis of race, religion, ethnicity, age, gender, national origin, or sexual preference. Still, we will not be silenced by the difficulty of fruitfully discussing politically sensitive issues.

Supportive Statement: I am to create a learning environment for my students that supports various perspectives and experiences. I understand that the recent pandemic, economic disparity, and health concerns, or even unexpected life events may impact the conditions necessary for you to succeed. My commitment is to be there for you and help you meet the learning objectives of this course. I do this to demonstrate my commitment to you and to the mission of Sul Ross State University to create a supportive environment and care for the whole student as part of the Sul Ross Familia. If you feel like your performance in the class is being impacted by your experiences outside of class, please don't hesitate to come and talk with me. I want to be a resource for you.

Tutoring: The Lobo Den Tutoring Center offers FREE tutoring support to help you excel in your courses. Whether you need assistance in Writing, Math, Science, or other subjects, we're here to help!

Important Information:

Drop-in and Scheduled Appointments: Flexible options to fit your needs. Hours of Operation: Monday–Friday, 8:00 AM – 5:00 PM. Workshops: Attend our regularly hosted academic workshops on STEM topics and professional development, often in collaboration with specialized faculty. Location: BWML Room 128. Contact Us: For more information or to book an appointment, email tutoring@sulross.edu or call (432) 837-8726. Looking for additional support?

Tutor.com offers FREE 24/7 online tutoring in over 200 subjects, including specialized support for ESL and ELL learners with native Spanish-speaking tutors. Access Tutor.com via Blackboard: Log in to your Blackboard account to get started anytime, anywhere. Take advantage of these valuable resources to boost your confidence and performance in your classes. We look forward to helping you succeed!

Important Dates:

August 24	First day of classes
August 27	Last day for late registration and schedule changes Payment deadline for students, 4 p.m.
September 7	Labor Day Holiday
September 9	Census day, deadline to apply for Fall graduation
October 19	Mid-term
November 2	Spring registration begins
November 6	Last day to drop a session I course with a 'W'. Drops must be processed and in the University Regi
November 26-28	Thanksgiving
December 2	Last Class Day
December 3	Dead Day
Decemeber 4, 7-9	Final Examinations

Tentative Schedule-Subject to Change

	Tuesday		Thursday
Aug. 25	Intro Problems Solving 10	Aug. 27	Problem Solving
Sept. 1	Axiomatic System, Polygons	Sept. 3	Angles and Tessellations
Sept. 8	3-D shapes, Dimensional Analysis	Sept. 10	Perimeter and Area
Sept. 15	Pythagorean Theorem	Sept. 17	Surface Area and Volume
Sept. 22	Reasoning and Proofs	Sept. 24	Exam 1
Sept 29	Triangle Congruency	Oct 1	Constructions
Oct. 6	Parallel Postulate	Oct. 8	Quadrilaterals and Constructions
Oct. 13	Ration and Proportion	Oct. 15	Similarity
Oct. 20	Similarity	Oct 22	Central and Inscribed Angles
Oct. 27	Exam 2	Oct 29	Chords, Secants, and Tangents
Nov. 3	Circle Constructions	Nov. 5	Coordinate Geometry
Nov. 10	Transformations	Nov. 12	Transformations
Nov. 17	Non-Euclidean Geometry	Nov. 19	Non-Euclidean Geometry
Nov. 24	Exam 3	Nov. 26	Thanksgiving Holiday
Dec 1	Non-Euclidean Geometry		