

Sul Ross State University
Course Syllabus
MATH 3306-001: Topics in Algebra and Geometry
Fall 2021

Instructor: Dr. Angela M. Brown

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Office Hours: TWR 11-12, MW 2-4:30, TR 3:30-4:30, others by appointment

Time and Place of Class Meetings: Online

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:

- Demonstrate an understanding of algebraic structures.
- Create a coordinate system for varying algebraic structures.
- Identify the cross sectionality of differing Geometry and Algebra topics.

Required Textbooks: No required textbook, but varying open source materials will be used in the class

Other Equipment Needed: paper and pencils.

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:
Assignments 50% Projects 50%

Homework/in Class Assignments: Assignments will be posted on Blackboard and should be submitted there. Please make sure submissions are in order and all pages are turned in the same direction when you submit them.

Projectss: You will have at least 3 projects throughout the semester. One on the algebraic content, one on the geometric, and the third over the cross sectionality of the topics. These can be presented in any fashion that you want, but will need to be made in a format where the remainder of the class can see them. Grading for these will include a portion from your classmates as well as me.

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. The seat you pick will be your assigned seat for the remainder of the semester. A seating chart will be made the first day and will be used to check attendance. This is not only to keep roll, but to be able to properly contact trace for the class.

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 3 weeks of not signing in and completing assignments online more.

Americans With Disabilities Act: 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. Students seeking accessibility/accommodations services must contact Rebecca Greathouse Wren, LPC-S, SRSU's Accessibility Services Coordinator at 432-837-8203 (please leave a message and we'll get back to you as soon as we can during working hours), or email rebecca.wren@sulross.edu. Our office is located on the first floor of Ferguson Hall (Suite 112), and our mailing address is P.O. Box C-122, Sul Ross State University, Alpine, Texas, 79832.

Library Services: 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 LobolD 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).

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.

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.

Diversity Statement: I aim to create a learning environment for my students that supports a diversity of thoughts, perspectives and experiences, and honors your identities (including race, gender, class, sexuality, religion, ability, socioeconomic class, age, nationality, etc.). I also understand that the crisis of COVID, economic disparity, and health concerns, or even unexpected life events could 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 an inclusive 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.

Important Dates:

August 23	First Day of Classes
August 26	Last Day for Late Registration and Schedule Changes
September 6	Labor Day
September 8	12th Class Day
November 12	Last Day to Withdrawal from University or Drop Classes with a Grade of “W” (by 4 pm)
November 24-26	Thanksgiving Holiday
December 1	Last Day of Classes
December 2	Dead Day
December 3, 6-8	Final Exams

Tentative Schedule-Subject to Change

Week 1	Aug 23-27	Intro and Algebraic Structures	
Week 2	Aug 30-Sept 3	Algebraic Structures	
Week 3	Sept 6-10	Algebraic Structures	
Week 4	Sept 13-17	Algebraic Structures	
Week 5	Sept 20-24	Algebraic Structures	
Week 6	Sept 27-Oct 1	Geometry	
Week 7	Oct 4-Oct 8	Geometry	Project 1 Due
Week 8	Oct 11-15	Geometry	
Week 9	Oct 18-22	Geometry	
Week 10	Oct 25-29	Geometry	
Week 11	Nov 1-5	Coordinate Systems	
Week 12	Nov 8-12	Coordinate Systems	Project 2 Due
Week 13	Nov 15-19	Coordinate Systems	
Week 14	Nov 22-26	Coordinate Systems and Thanksgiving	
Week 15	Nov 29-Dec 1	Coordinate Systems	
Week 16	Dec 6-8	Finals Week	Final Project Due