

Sul Ross State University
Course Syllabus
MATH 1332-001/C01: Contemporary Mathematics
Spring 2022

Instructor: Dr. Angela M. Brown

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Office Hours: **Office Hours:** 10 am-12 pm and 2-4 pm M, 10 am-12 pm and 2-3 pm W, others by appointment

Time and Place of Class Meetings: TR 11:00 am-12:15 pm MAB 302

Course Prerequisites: Undergraduate level Math 0300 Minimum Grade of D or high enough score on one of the math placement exams (ASSET 38, ACCUPLACER 63, MAPS 613, THEA 230, TASP 230, COMPASS 39).

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 - 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:

- The student will be able to use problem solving strategies to gain a deeper knowledge of a problem.
- The student will be able to solve change of base problems including from a historical perspective.
- The student will be able to find and understand numbers beyond the integers.
- The student will be able to distinguish between different graphs and knots.
- The student will expand on their knowledge of Euclidean geometry into other branches of geometry.

Required Textbooks: *Viewing Life Mathematically* Denley and Hall, 978-1-935782-06-3 or 978-1-935782-05-6. You will need to access the online homework system (which includes the electronic textbook) for this course.

Other Equipment Needed: paper and pencils, possibly markers and or colored pencils. Other materials may be needed as the course progresses.

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 10%

Quizzes/In Class Assignments: 20%

Participation: 10%

Project: 20%

Exams: 40%

Quizzes and In Class Assignments: Quizzes will be given periodically. You will have advanced warning of most quizzes. Additional in class assignments will be given and counted the same as quiz grades. Some quizzes can be in the homework system as well.

Homework: Homework will be assigned daily and homework will be submitted through the homework system. Homework is mastery based.

Project: From the material presented in class or material in the book not presented, students will need to come up with a creative (i.e. not a term paper) project. These will be presented at the end of the course. Each student must come up with their own original creation and no two groups can have the same project idea. You may work in pairs. More information will be given on this later in the semester.

Exams: No make-up exams will be given. Exams will be closed notes, closed book, and no calculator will be allowed unless otherwise stated by your instructor. 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.

Final Exam Date: Monday, May 2 10:15 am-12:15 pm

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.

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.

Cell Phone Policy: Cell phones are not allowed in class. They can not be used as calculators on any assignment. Any phone ringing during class will be taken up until the end of class. If a phone rings during a test or quiz, the student will forfeit their right to finish said test or quiz.

Americans With Disabilities Act: SRSU Disability 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. Alpine students seeking accessibility/accommodations services must contact

Mary Schwartz Grisham, M.Ed., LPC, 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 mschwartz@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 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. Off-campus access requires your LoboID and password. Check out materials using your photo ID. Librarians are a tremendous resource for your coursework and can be reached in person, by email (srsulibrary@sulross.edu), or phone (432-837-8123).

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:

- Aug 22 First Day of Classes
- Aug 25 Last Day for Late Registration and Schedule Changes
- Sept 5 Labor Day Holiday
- Sept 7 12th Class Day-Last Day to Drop a Course Without Creating an Academic Record
- Nov 14 Last Day to Withdrawal from University or Drop Classes with a Grade of "W" (by 4 pm)
- Nov 23-25 Thanksgiving Holiday
- Dec 2,5-7 Final Exams

Tentative Schedule-Subject to Change

	Tuesday		Thursday
Aug. 23	Introduction	Aug. 25	Geometry
Aug. 30	Geometry	Sept. 1	Geometry
Sept. 6	Geometry	Sept. 8	Geometry
Sept. 13	Geometry and the Arts	Sept. 15	Geometry and the Arts
Sept. 20	Geometry and Space	Sept. 22	Exam 1
Sept. 27	Graph Theory	Sept. 29	Graph Theory
Oct. 4	Graph Theory	Oct. 6	Graph Theory
Oct. 11	Knot Theory	Oct. 13	Knot Theory
Oct. 18	Knot Theory	Oct. 20	Knot Theory
Oct. 25	Exam 2	Oct. 27	Probability
Nov. 1	Probability	Nov. 3	Probability
Nov 8	Financial Math	Nov. 10	Financial Math
Nov. 15	Financial Math	Nov. 17	Voting
Nov. 22	Voting	Nov. 24	Thanksgiving Holiday
Nov 29	Exam 3		