

Sul Ross State University
Course Syllabus
MATH 3301-001,MC1: Geometry
Spring 2021

Instructor: Dr. Angela Brown

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Office Hours: virtual and by appointment.

Time and Place of Class Meetings: MW 9:30-10:45 ACR 108

Prerequisites: MATH 2311, MATH 2318, or instructor consent

Required Textbooks: *Euclidean Geometry: An Introduction to Mathematical Work*, Hitchman, T.J., JOURNAL OF INQUIRY-BASED LEARNING IN MATHEMATICS, No.45, March 2017. (Open Source, so no purchase is necessary)

Other Equipment Needed: paper and pencils, compass, straight edge, I would also suggest downloading Geogebra. It is an open source computer algebra system (CAS) that allows for geometric constructions.

Course Content: Students will understand the formal development of Euclidean geometry and understand multiple different non-Euclidean geometries.

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.

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:

Participation/Presentations: 25%

Homework/Quizzes/In Class Work: 25%

Midterm Exam: 15%

Project: 20%

Final Exam: 15%

For each class period, you will be expected to read your the material we will be covering that day and work through any problems assigned to presented for that class period. After a lesson is presented for the day, in class quizzes over the actual material will be may given as well.

Homework will be assigned periodically throughout the semester. Homework assignments must be complete and will be turned in to Blackboard. Dates will be posted to Blackboard. Not all problems will be graded for content,

but the assignment grade is contingent on completeness. If you use outside references, make sure to properly source the material.

There will be two exams, a midterm and the final exam. All exams will be closed notes, closed book, and no calculators allowed unless otherwise stated. No make-up exams will be given unless due to a school function. If you miss the midterm exam with a valid excuse, the grade you make on the final exam can replace this grade.

For the Class Project, you will pick topics from geometry that have not been covered in the class in depth (This could include finite or infinite projective geometry, finite (affine) geometry, Riemannian geometry, etc) You will make a presentation for the entire class. These topics could be tested on on the final, so you need to make sure you attend and pay attention to everyone's presentations. The presentations should be 30 minutes each. For the presentation you will be expected to use more than your textbook as a source of material.

The final exam is on Friday April 30 at 10:15 am.

General Policies: Class will start at the designated time and run for 1 hour and 15 minutes with no breaks. You are expected to be on time, attend every class meeting, stay for the duration of class time and come to learn. Do not schedule any appointments that will conflict with class time; if you have done so then I need documentation of the appointments.

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, tablets, and i-pods. A cell phone cannot be used as a calculator. Devices for recording the lecture are permitted; either audio or video.

If you come to class without your materials then you will be released from class to go get the appropriate materials. Working on another class during this one is not allowed. If you are causing others around you to miss lecture material then you will be asked to leave.

Any personal business must be conducted during office hours or by appointment. I will only discuss grades and attendance issues in my office. 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. 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: 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 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).

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.

Covid-19 Policies: A mask must be worn at all times while in public spaces indoors or outdoors. This mask must cover your mouth and nose. Students not wearing a mask will be required to leave class for the day and can be reported to the Dean of Student Life. If you are sick or have been around someone who has tested positive for Covid-19, do not attend class in person. This course has an attached zoom section that you can attend. Other policies will be attached as a separate document.

Important Dates:

January 11	First Day of Classes
January 14	Last Day for Late Registration and Schedule Changes
January 18	MLK Holiday
January 27	12th Class Day
March 8-12	Spring Break
April 1	Last Day to Withdrawal from University or Drop Classes with a Grade of "W" (by 4 pm)
April 2	Good Friday Holiday
April 28	Last Day of Classes
April 29	Dead Day
April 30, May 3-5	Final Exams
May 7	Commencement

Tentative Schedule-Subject to Change

	Tuesday		Thursday
Jan 11	Introduction	Jan 13	Rombii
Jan 18	MLK Jr Day, no class	Jan 20	Rombii
Jan 25	Kites	Jan 27	Kites
Feb 1	Rectangles	Feb 3	Rectangles
Feb 8	Polygonst	Feb 10	Polygons
Feb 15	Regular Figures	Feb 17	Regular Figures
Feb 22	Triangles	Feb 24	Triangles
March 1	Triangles	Mar 3	Exam 1
Mar 15	Circles	Mar 17	Circles
Mar 22	Circles	Mar 24	Constructions
Mar 29	Constructions	Mar 31	Constructions
Apr 5	Constructions	Apr 7	Additional Geometry Topics
Apr 12	Additional Geometry Topics	Apr 14	Regular Figures revisted
Apr 19	Regular Figures revisted	Apr 21	Regular Figures revisted
Apr 26	Presentations	April 28	Presnetations