

**Course Syllabus**  
**MATH 3301-001,MC1: Geometry**  
**Spring 2015**

**Instructor:** Dr. Angela Brown

**Office Number:** ACR 107D

**Office Telephone Number:** (432)837-8223

**Email Address:** abrown4@sulross.edu

**Office Hours:** MW 10-12, TR 2-3:30, others by appointment.

**Time and Place of Class Meetings:** TTh 3:30-4:45 ACR 206 (Midland AMS 6)

**Prerequisites:** MATH 2311 or MATH 2330 or instructor consent

**Required Textbooks:** No textbook required. We will be using Euclid's *Elements* along with other sources. You may wish to find a traditional geometry textbook to help in your studies.

**Other Equipment Needed:** paper and pencils, compass, straight edge

**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: 15%

Homework/Quizzes/In Class Work: 35%

Exams: 30%

Final Exam: 20%

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 in gone through 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 on Mondays during class. 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 in addition to the final exam. All exams will be closed notes, closed book, and no calculators allowed. No make-up exams will be given unless due to a school function. If you miss an exam with a valid excuse, the grade you make on the final exam can replace this grade.

The final exam is on Wednesday May 13 at 3:00 pm.

**General Policies:** Class will start at the designated time and run for 1hour 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/pads 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. If you try to sleep during class or put your head on your desk you will have to leave class and go home and sleep. Working on another class is not allowed. If you sit with your arms crossed, you will be asked to take notes and participate. 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:** As an instructor, I am required by law to provide “reasonable accommodations” to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing the instructor for MATH 4330 of their need for accommodation and in providing authorized documentation through designated administrative channels. If you need to request such accommodations, please contact the ADA Coordinator in Counseling and Accessibility Services, Ferguson Hall 112, 432-837-8203.

**Important Dates:**

- January 20 First Day of Classes
- January 23 Last Day for Late Registration and Schedule Changes
- March 16-20 Spring Break
- April 10 Last Day to Withdrawal from University or Drop Classes with a Grade of “W” (by 4 pm)
- May 6 Last Day of Classes
- May 11-14 Final Exams
- May 16 Commencement

Tentative Schedule-Subject to Change

|         | Monday                 |        | Wednesday              |
|---------|------------------------|--------|------------------------|
|         |                        | Jan 21 | Intro                  |
| Jan 26  | Euclidean Geometry     | Jan28  | Euclidean Geometry     |
| Feb 2   | Euclidean Geometry     | Feb 4  | Euclidean Geometry     |
| Feb 9   | Euclidean Geometry     | Feb 11 | Euclidean Geometry     |
| Feb 16  | Euclidean Geometry     | Feb 18 | Euclidean Geometry     |
| Feb 21  | Euclidean Geometry     | Feb 25 | Euclidean Geometry     |
| March 2 | Euclidean Geometry     | Mar 4  | Euclidean Geometry     |
| Mar 9   | Review/Catch Up        | Mar 11 | Exam 1                 |
| Mar 21  | Non-Euclidean Geometry | Mar 25 | Non-Euclidean Geometry |
| Mar 30  | Non-Euclidean Geometry | Apr 1  | Non-Euclidean Geometry |
| Apr 6   | Non-Euclidean Geometry | Apr 8  | Non-Euclidean Geometry |
| Apr 13  | Non-Euclidean Geometry | Apr 15 | Non-Euclidean Geometry |
| Apr 20  | Non-Euclidean Geometry | Apr 22 | Non-Euclidean Geometry |
| Apr 27  | Review/Catch Up        | Apr 29 | Exam 2                 |
| May 4   | Review/Catch Up        | May 6  | Review/Catch Up        |