

MATH 560 01R & 41S & 71R
EUCLIDEAN AND NON-EUCLIDEAN GEOMETRY
FALL 2015

CONTACT INFORMATION:

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OFFICE HOURS : MWF 10:50-11:50am (Commerce),
TR 3:50-4:50pm (MPLX), otherwise by appointment

DESCRIPTION AND POLICIES:

1. CLASS SCHEDULE: TR 6:25p-7:40p, MPLX131 (41S) & BA244 (01R) & BC322 (71R)
2. TEXTBOOK: Foundations of Geometry, second edition, by Gerard A. Venema. ISBN 0-13-602058-5
3. WEBSITE & INTERNET: An eCollege website has been created for the course which may be accessed from student myLEO accounts following the eCollege and then the My Courses tabs. All files and documents that the instructor shares with the class will be posted in the Doc Sharing folder in the course website. All material posted at the course website is copyrighted ©. You are allowed to retain one copy of each file for your personal use, but the files should not be duplicated and distributed in any form.
4. COURSE DESCRIPTION: Axiomatic systems, classical and modern incidence geometries including neutral, Euclidean geometries and hyperbolic and elliptic geometries, constructions, transformations, various models for geometries. Prerequisite: Math 331 or Consent of Instructor.
5. SOFTWARE: GeoGebra software is required for the course. It will be used for carrying out geometric constructions and calculations in classroom discussions, homework exercises, and in projects. This is a popular free geometry software that may be downloaded from <http://www.geogebra.org/cms/en/>.
6. TESTS & PROJECTS: There will be two tests/projects (100 points each) and a comprehensive final (200 points). No make-up test will be given without an official, written, university accepted excuse. The student must contact the instructor the next working day and present the documented excuse to make up a test.

7. **HOMEWORK:** Homework will be assigned in every class meeting on a regular basis. Selected assignments and problems will be graded only, but all homework problems should be worked out. The requested assignments will be due the next class day and will be turned in electronically to Dropboxes at the eCollege website. You may work in groups unless otherwise instructed, however the paper you turn in must be your own work. Late homework is not accepted. Attendance may be used instead to assign the homework score which will be 50 points of the final grade.
8. **LEARNING OUTCOMES:** Students who complete this course successfully will
- learn the *terminology* of Euclidean and non-Euclidean geometries;
 - learn the *methods* used in establishing results in such geometries;
 - learn the *applications* of abstract theoretical results to practical problems.
9. **TENTATIVE COURSE OUTLINE:** We cover parts of these topics as time permits.
- Intrduction to GSP (Week 1)
 - Axiomatic Systems and Incidence Geom (Week 2, Week 3 and Week 4)
 - Axioms for Plane Geometry (Week 4, Week 5, and Week 6)
 - Neutral Geometry (Week 6, Week 7, Week 8, and Week 9)
 - Euclidean Geometry (Week 10, Week 11, and Week 12)
 - Hyperbolic Geometry (Week 13, Week 14, and Week 15)
10. **GRADING SCALE:** All scores will be added and a letter grade will be assigned according to the following table.
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|---|---------------|
| A | 406 - 450 pts |
| B | 361 - 405 pts |
| C | 316 - 360 pts |
| D | 271 - 315 pts |
| F | 0 - 270 pts |
11. **TENTATIVE EXAM SCHEDULE:**
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|--------|---------|----------------------------|----------|
| Test 1 | 100 pts | Thursday October 8, 2015 | in class |
| Test 2 | 100 pts | Thursday November 12, 2015 | in class |
| Final | 200 pts | Tuesday December 15, 2015 | in class |
12. **OTHER IMPORTANT DATES:**
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|----------------------|-------------------------------------|
| November 25-27, 2015 | Thanksgiving holiday |
| November 5, 2015 | Last day to drop a class |
| December 6, 2015 | Last day to withdraw from Fall 2015 |
| December 11, 2015 | Last class day |

13. MISCELLANEOUS: Your enrollment in this course indicates that you agree to observe all the conditions and regulations of this syllabus and the Student Handbook. Your test and homework scores may be filed to be used anonymously for educational research.

It is your responsibility to secure the software licenses and other resources (such as a personal computer with proper operating system to run the software, broadband internet access, etc.) to be able to complete and communicate all assignments, tests and projects to the instructor as required. The access information to Library resources, and Help Desk for technical support are available through the eCollege website.

Policies pertaining to scholastic dishonesty are identical to TAMU-Commerce regulations given in the Student Handbook, available online at the website <http://web.tamuc.edu/studentLife/documents/studentGuidebook.pdf>. All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment (See Student's Guide Handbook, Policies and Procedures, Conduct). Disruptive behavior (including use of electronic devices in classroom) and scholastic dishonesty in any form will not be tolerated.

Students requesting accommodations for a disability should contact the Office of Student Disability Resources and Services, Texas A&M University-Commerce, Gee Library, Room 132, Phone: (903) 886-5150 or (903) 886-5835, Fax: (903) 468-8148, or Email: StudentDisabilityServices@tamuc.edu.

Any possible changes to be made in this syllabus by the instructor during the semester will be announced in class or by email.