

MAT 360: GEOMETRIC STRUCTURES; SPRING 2017

Course Description

Text: *Euclidean and Non-Euclidean Geometries: Development and History*, 4th edition, by Marvin Greenberg. You may also use the 3rd edition; but then you will be responsible for making sure you do the home work problems assigned out of edition 4.

Course description: This is a course about planar Euclidean Geometry and some planar non-Euclidean Geometry. It is assumed that you have already covered some Euclidean Geometry in high school (or elsewhere). The approach is axiomatic: certain axioms (which Euclidean palanar Geometry satisfies) are introduced and all other results are deduced from these axioms. So the course is very “proof oriented”. We will try to cover the material in the first seven chapters of the text book.

Course Teacher and Grader

Teacher: Lowell Jones; office 2-111 in math building; phone 632-8248; email lejones@math.stonybrook.edu; office hours are 11:30am–12:30pm on Tuesday and Thursday in room 2-111, and 11:30am-12:30pm on Wednesday in P-143.

Grader: Xuemiao Chen; office 3-103; office hours are Friday 12pm-1pm in office, Tuesday 5pm-7pm in MLC.

Homework

Homework is assigned weekly, covering the material discussed in lecture that particular week; that homework should be handed in during the first lecture of the following week (unless otherwise stipulated). The homework assignments can be found on our Blackboard website by going to the “Calendar” (viewing the calendar in monthly form) and clicking on the first class day of the week in question. For example, to find your first home work assignment, view the calendar in monthly form and click on “HW 1 and topics” which appears in the box for January 23.

Exams

There is one inclass midterm; it will take place in class on Tuesday March 21. The final exam will take place on Friday May 12 from 11:15am to 1:45

pm. The final exam room will be announced on this website later in the semester.

If you register for this course you must make sure that you have no schedule conflicts with the times of the midterm and final exam. Makeup exams will only be given in the event that circumstances beyond the student's control do not allow the student to take the exams at the assigned times; in particular "schedule conflicts" are not reasons for a makeup to be given.

Grading

Homework=30%

Midterm =30%

Final exam =40%

Americans with Disabilities Act:

If you have a physical, psychological, medical or learning disability that may impact on your ability to carry out assigned course work, please contact Disability Support Services (DSS) at 632-6748/TDD. The DSS will review your concerns and determine, with you, what accommodations are necessary and appropriate. All information and documentation is confidential.

Academic Integrity:

Each student must pursue his or her goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity see the academic judiciary web site at <http://www.stonybrook.edu/uaa/academicjudiciary/>

Critical Incident Management:

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of University Community Standards any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Further information about most academic matters can be found in the undergraduate Bulletin.

Syllabus (TBA)

The weekly homework assignments will be posted on the course calendar (see Blackboard).

Week of 1/23-1/27: cover chapter 1

Week of 1/30-2/3: cover chapter 2

Week of 2/6-2/10: cover chapter 3

Week of 2/13-2/17: cover chapter 3

Week of 2/20-2/24: cover chapter 3

Week of 2/27-3/3: cover chapter 4

Week of 3/6-3/10: cover chapter 4

Week of 3/13-3/17: spring vacation

Week of 3/20-3/24: Midterm on Tuesday March 21; cover chapter 4.

Week of 3/27-3/31: cover chapters 4 and 5

Week of 4/3-4/7: cover chapters 5 and 6

Week of 4/10-4/14: cover chapter 6

Week of 4/17-4/21: cover chapter 7

Week of 4/24-4/28: cover chapter 7

Week of 5/1-5/5: last week of classes; cover chapter 7