Math 2360: Geometry

Basic Information

Instructor: Luke Rogers
Instructor's Office Hours: Thursdays 3-4pm and Fridays 10-11am in MSB 414.
Lectures: Tuesdays and Thursdays, 9:30-10:45am in MSB 303.
Textbook: *Geometry With Geometry Explorer* by M. Hvidsten.
Grading Scheme: Homework: 20%. Two Midterms: 20% each. Final Exam: 40%.

Syllabus

Our goal is to cover most of the material in Chapters 1,2,4,5, and 7 of the text, though not in that order. Not all material taught in class is in the textbook, or vice-versa. All material from class or the assigned sections of the text is examinable. You are expected to read the material before class. To do so, you should refer to the following table. This version is preliminary and subject to change.

Week	Day	Topics	Read Before Class
8/31 – 9/4	Tuesday	Van Hiele levels, History of Axiomatic Math.	Sections 1.1, 1.2, 1.4
	Thursday	Properties of Axiomatic Systems	Section 1.5
9/7 – 9/11	Tuesday	Euclids Geometry	Section 1.6, Appendix D
	Thursday		Section 2.1
9/14 – 9/18	Tuesday		Section 2.1
	Thursday		Section 2.2
9/22 – 9/26	Tuesday		Section 2.3
	Thursday		Section 2.4
9/28 – 10/2	Tuesday		Section 2.5
	Thursday		Section 2.6
10/5 – 9	Tuesday	Midterm 1	
	Thursday		Section 2.7
10/12 – 16	Tuesday		Section 4.1
	Thursday		Sections 7.1 & 7.2
10/19 – 23	Tuesday		Section 7.3
	Thursday		Section 7.4
10/26 – 30	Tuesday		Section 7.5
	Thursday		Section 7.6
11/2 – 6	Tuesday		
	Thursday	Midterm 2	
11/9 – 13	Tuesday		Section 5.1
	Thursday		Section 5.2

11/16 – 20	Tuesday		Section 5.3
	Thursday		Section 5.4
11/23 – 27	Tuesday	THANKSGIVING	
	Thursday	THANKSGIVING	
11/30 –12/4	Tuesday		Section 5.5
	Thursday		Section 5.6
12/7 – 11	Tuesday	Erlanger Program.	
	Thursday	Review	

Homework

Homework will be assigned every Thursday. You will have one week to complete the homework and it will be collected on the following Thursday. Late homework will rarely be graded; if you anticipating handing in a piece of homework late and hope that it will still be graded, please discuss it with me in advance.

Due Date	Problems
09/10/09	1.4.3, 1.4.4, 1.4.5, 1.5.1, 1.5.8, 1.5.9. If you don't yet have the book click here.
09/17/09	1.7.1, including the project report (which should not exceed 1 page). In order to compare Euclidean and hyperbolic geometries, it may be helpful to first work through the material from pages 40-49 in Euclidean geometry with Geometry Explorer. Note that Appendix B is a fairly complete explanation of how to use Geometry Explorer.
09/24/09	2.1.2, 2.1.5, 2.1.6, 2.1.8, 2.2.2, 2.2.4, 2.2.5 . Note that most of the problems tell you which axioms to use. You can also use any theorem stated in the book before the problem you are working on.
10/01/09	2.3.1, 2.3.2, 2.3.5, 2.4.1.
10/08/09	
10/15/09	2.4.7, 2.4.9, 2.5.3, 2.5.4, 2.6.3, 2.6.5.
10/22/09	2.6.7, 2.6.8, 2.6.11, 2.7.4 (note – the last of these is a geometry explorer exercise, so it is easy to find out what happens. What I care about is that you explain why you would expect it to happen. No proof is required in this last exercise.)
10/29/09	7.2.1, 7.2.2, 7.2.3, 7.2.4.
11/05/09	
11/12/09	7.3.7, 7.3.8, 7.3.9, 7.3.10, 7.4.1
11/19/09	7.5.2, 7.5.3, 7.5.6, 7.5.8, 7.5.9, 7.5.11
11/29/09	None – Thanksgiving
12/03/09	No Homework as I forgot to assign it in time.
12/10/09	7.6.1, 5.1.6, 5.1.7, 5.2.9, 5.2.11, 5.3.4, 5.3.9.

Exams

- An in-class Midterm Exam on October 6th. You will not need your textbook, notes or calculator. A sheet of theorems we have learned so far will be provided on the exam.
- An in-class Midterm Exam on November 5th.
- One Final Exam on December 17th from 8:00am-10:00am in MSB 303. A sheet of theorems we have learned so far will be provided on the exam. Note that this date and time is subject to change due to inclement weather. Up to date exam information is available from the website of the registrar: http://www.registrar.uconn.edu

If you cannot attend an exam for a legitimate reason, please contact me in advance (if possible) with appropriate documentation, so that we can make alternative arrangements.

Academic Integrity

The University of Connecticut expects that its students will adhere to a high level of integrity in their academic work. You may find information about the academic integrity policy as it pertains to students at http://www.community.uconn.edu/academic_integrity_students_faq.html

University Services

- Counseling and Mental Health Services: 486-4705
- Alcohol and Other Drugs Services: 486-9431
- Dean of Students Office 486-3428