

MATHE 4800C FOUNDATIONS OF ALGEBRA AND GEOMETRY
WEEKLY SCHEDULE
FALL 2011

MATTHEW AUTH, LECTURER OF MATHEMATICS

Week	Topics	Readings
1	Foundations of Euclidean Geometry	Introduction and Section 1.5 (Kiselev)
2	Integers and the Decimal System	"What is Mathematics?" (Essay by Courant p.0), p.1-13 (Courant)
3	Congruence Tests and Constructions	Sections 1.6—1.10 (Kiselev)
4	Parallel Lines	Sections 1.11—1.13 (Kiselev)
5	Rationals and Irrationals	p.52-71 (Courant)
6	Circles	Sections 2.2—2.4 (Kiselev)
7	Similarity	Sections 3.2, 3.4, and 3.5 (Kiselev)
8	Pythagorean Theorem and Trigonometry	Sections 3.6 (through theorem 190), 3.7 (Kiselev)
9	Coordinates and Complex Numbers	Section 3.9 (Kiselev), p.88—103 (Courant)
10	Isometries	see week 10 notes
11	Projective Geometry	p.165—193 (Courant)
Midterm 2 on Wednesday 30 November.		
12	Non-Euclidean Geometry	p.214—227 (Courant)
13	Topology	p.235—248 and p.255—259 (Courant)

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