Date	L#	Calendar for 2025 Spring Semester MATH 3110/5110 College Geometry (Barsamian)	HQX
Mon Jan 13		No class	
Wed Jan 15	L01	2.1 The structure of an axiomatic system, 2.2 An Example: Incidence geometry	
Fri Jan 17	L02	2.3 The parallel postulates in incidence geometry; 2.4 Axiomatic systems and the real world	
Mon Jan 20		Holiday: No Class	
Wed Jan 22	L03	2.5 Theorems, proofs, and logic	
Fri Jan 24	L04	2.6 Some theorems from incidence geometry	H01,Q01
Mon Jan 27	L05	3.1 The Undefined terms and two fundamental axioms, 3.2 Distance and the Ruler Postulate	
Wed Jan 29	L06	3.2 Distance and the Ruler Postulate, 3.3 Plane Separation	
Fri Jan 31	L07	3.3 Plane Separation	H02,Q02
Mon Feb 3	L08	3.4 Angle measure and the Protractor Postulate	
Wed Feb 5	L09	3.5 The Crossbar Theorem and the Linear Pair Theorem	
Fri Feb 7	L10	3.6 The Side-Angle-Side Postulate	H03,Q03
Mon Feb 10	L11	3.7 The parallel postulates and models	
Wed Feb 12		**Exam X1 Covering Chapters 2 and 3**	X1
Fri Feb 14	L12	4.1 The Exterior Angle Theorem and existence of perpendiculars	
Mon Feb 17	L13	4.2 Triangle congruence conditions	
Wed Feb 19	L14	4.3 Three inequalities for triangles	
Fri Feb 21	L15	4.4 The Alternate Interior Angles Theorem	H04,Q04
Mon Feb 24	L16	4.5 The Saccheri-Legendre Theorem	
Wed Feb 26	L17	4.6 Quadrilaterals	
Fri Feb 28	L18	4.7 Statements equivalent to the Euclidean Parallel Postulate	H05,Q05
Mon Mar 3	L19	4.7 Statements equivalent to the Euclidean Parallel Postulate	
Wed Mar 5	L20	4.8 Rectangles and defect	
Fri Mar 7		**Exam X2 Covering Chapter 4**	X2
Mon Mar 10		Spring Break: No Class	
Wed Mar 12			
Fri Mar 14			
Mon Mar 17	L21	5.1 Basic theorems of Euclidean geometry	
Wed Mar 19	L22	5.2 The Parallel Projection Theorem; 5.3 Similar triangles	
Fri Mar 21	L23	5.4 The Pythagorean Theorem	H06,Q06
Mon Mar 24	L24	5.5 Trigonometry	
Wed Mar 26	L25	5.6 Exploring the Euclidean geometry of the triangle	
Fri Mar 28	L26	5.6 Exploring the Euclidean geometry of the triangle	H07,Q07
Mon Mar 31	L27	7.1 The Neutral Area Postulate	
Wed Apr 2	L28	7.2 Area in Euclidean geometry	
Fri Apr 4		**Exam X3 Covering Chapters 5 and 7**	X3
Mon Apr 7	L29	8.1 Circles and lines in neutral geometry	
Wed Apr 9	L30	8.2 Circles and triangles in neutral geometry	
Fri Apr 11	L31	8.3 Circles in Euclidean geometry	H08,Q08
Mon Apr 14	L32	8.4 Circular continuity; 8.5 Circumference and area of Euclidean circles	
Wed Apr 16	L33	8.6 Exploring Euclidean circles	
Fri Apr 18	L34	10.1 Properties of isometries	H09,Q09
Mon Apr 21	L35	10.2 Rotations, translations, and glide reflections	
Wed Apr 23	L36	10.3 Classification of Euclidean motions	
Fri Apr 25	L37	10.5 A transformational approach to the foundations	H10,Q10
Fri May 2		**Final Exam FX 1:00pm - 3:00pm in Morton 326**	FX

Section	Red Exercises are Assigned to be turned in as Homework Assignments. Black Exercises are Suggested, not to be turned in.																				Homework Assignments
2.4	2	3	4	5	6	7	**8**	**9**	**13**	**14**	**15**	16									**H01**
2.5	**1**	**2**	**3**	4	5	6	**9**	10	11	12	13	14	**15**	**16**	**17**						Due Fri Jan 24
2.6	1	**3**	**4**	**5**	6	7	8	9													**H02**
3.2	1	2	4	5	7	**9**	**12**	**13**	16	17	18	19	**22**	23	**26**	27	**28**				Due Fri Jan 31
3.3	**1**	**2**	**3**	**5**																	**H03**
3.4	**1**																				Due Fri Feb 7
3.5	1	**2**	**3**	4	**5**	6															
3.6	1																				Suggested
3.7	1	2																			
4.1	**1**	**2**																			**H04**
4.2	**1**	2	**4**	**6**																	Due Fri Feb 21
4.3	**1**	**3**	4	5	7	**8**	**9**	10													
4.4	1	**2**	3																		**H05**
4.5	**1**	**2**																			Due Fri Feb 28
4.6	1	**2**	4	5	**6**	7	8	9	**10**	11	**12**	13									
4.7	1	2	3	4	5	6															Suggested
4.8	1	2	3	4	5	6	7														
5.1	**1**	2	**3**	4	**5**	6	7	8													**H06**
5.3	**1**	**2**	3	4																	Due Fri Mar
5.4	**1**	2	3	4	**5**																**H07**
5.5	**1**	2	**3**	4	5	**6**	**7**														Due Fri Mar
5.6	**1**	2	**4**	**5**	**6**	**7**	8	**9**													28
7.1	1	2	3																		Suggested
7.2	1	2	3	4	5	6	8	9													
8.1	**1**	**2**	3	4	**6**	**7**															**H08**
8.2	**1**	2	**3**																		Due Fri Apr 11
8.3	**1**	2	3	6	**7**	**8**	**9**														
8.4	**1**	3																			**H09**
8.5	**1**	2	**5**																		Due Fri Apr 18
8.6	**7**																				
10.1	**1**	2	**3**	4	5	6	7	8	9	**10**	11	**12**	**13**	**16**							**H10**
10.2	**1**	2	**3**	6	**7**	8	**9**														Due Fri Apr 25
10.3	1	**2**	3	**5**	**6**	**7**	8	**11**	12												
10.5	1	2	3	4																	Suggested