

Course Syllabus

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This is the course syllabus:

[syllabus_Math2220_Spr24.pdf](#) (<https://canvas.cornell.edu/courses/60077/files/9789976?wrap=1>)

Schedule

Week	Day	Shimamoto sections and topics
1	Jan 22	1.1-1.3. Icebreakers; Review of linear algebra: linear transformations
	Jan 24	1.3-1.5. Matrices, and matrix multiplication; geometry of dot product
	Jan 26	1.6, 2.1. Determinants; Paths/curves: parametrization
2	Jan 29	2.2, 2.3. Velocity, speed, arclength; Integration wrt arclength
	Jan 31	2.4. Tangent and normal vectors
	Feb 2, HW01 due	2.5. Cross product
3	Feb 5	2.6. Binormal and Frenet vectors; curvature
	Feb 7	2.7, 2.9. Curvature and torsion; Classification of space curves
	Feb 9, HW02 due	3.1. Graphs and level sets
4	Feb 12	
	Feb 14	
	Feb 16, HW03 due	
5	Break	
	Feb 28	
	Mar 1	
6	Mar 4	
	Mar 6	
	Mar 8	
7	Mar 11	
	Mar 12, 7:30pm	Prelim 1

	Mar 13 Mar 15	
8	Mar 18 Mar 20 Mar 22	
9	Mar 25 Mar 27 Mar 29	
10	Apr 8 Apr 10 Apr 12	
11	Apr 15 Apr 16, 7:30pm Apr 17 Apr 19	Prelim 2
12	Apr 22 Apr 24 Apr 26	
13	Apr 29 May 1 May 3	
14	May 6	

Course Summary:

Date	Details	Due
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