

# Math 121A Winter 2022 Syllabus

Any section numbers refer to the class notes and are subject to change.

Week	Date	Sections covered	Assessments
1	Mon 1/3	1.1 Intro	
	Wed 1/5	1.2 Vector Spaces/Subspaces	
	Fri 1/7	1.2	
2	Mon 1/10	1.3 Linear Dependence and Span	
	Wed 1/12	1.3, 1.4	HW/Quiz 1 Th
	Fri 1/14	1.4 Bases and Dimension	
3	Mon 1/17		MLK Day Holiday
	Wed 1/19	1.4, 1.5 Infinite Dimensions	HW/Quiz 2 Th
	Fri 1/21	2.1 Linear Maps	
4	Mon 1/24	2.2 Rank and Nullity	
	Wed 1/26	2.2, 2.3 Matrix Representations	HW/Quiz 3 Th
	Fri 1/28	2.3	
5	Mon 1/31	2.4 Change of co-ordinate matrices	
	Wed 2/2	Review	
	Fri 2/4		Midterm
6	Mon 2/7	3.1 Elementary matrices	
	Wed 2/9	3.2 Ranks & Inverses	
	Fri 2/11	3.2	
7	Mon 2/14	4.1 Determinants of order 2	
	Wed 2/16	4.2 Higher-order determinants	HW/Quiz 4 Th
	Fri 2/18	4.2	
8	Mon 2/21		Presidents Day Holiday
	Wed 2/23	4.3 An alternative definition of det	HW/Quiz 5 Th
	Fri 2/25	5.1 Eigenthings	
9	Mon 2/28	5.1	
	Wed 3/2	5.2 Diagonalizability	HW/Quiz 6 Th
	Fri 3/4	5.2	
10	Mon 3/7	5.3 Cayley-Hamilton	
	Wed 3/9	5.3	
	Fri 3/11	Review	
11	Wed 3/16		Final Exam 8:00-10:00

### **Temporary page!**

L<sup>A</sup>T<sub>E</sub>X was unable to guess the total number of pages correctly. As there was some unprocessed data that should have been added to the final page this extra page has been added to receive it.

If you rerun the document (without altering it) this surplus page will go away, because L<sup>A</sup>T<sub>E</sub>X now knows how many pages to expect for this document.