

# Reading\_HW\_Schedule

Class	Day	Section	Title	Homework Problems	Mathematica Problems	Due Date
1	01/14	2.1	Linear Systems of Equations	none	none	
2	01/16	2.2	Augmented Matrix of a Linear System and Row Operations	none	none	
3	01/18	2.3	Some Matrix Arithmetic	none	none	
4	01/23	3.1	Gauss–Jordan Elimination and <i>rref</i>	3(a, b), 7b, 9	none	01/25
5	01/25	3.2	Elementary Matrices	4	none	01/28
6	01/28	5.1	Determinants and Inverses from the Adjoint Formula	4(f, g, h), 5, 6, 7f	none	01/30
7	01/30	5.2	Finding Determinants by Expanding along...	15, 16, 21	none	02/01
8	02/01	5.3	Determinants Found by Triangularizing Matrices	none	none	
9	02/04	5.4	<i>LU</i> Factorization	none	1	02/06
10	02/06	5.5	Inverses from <i>rref</i>	none	3	02/08
11	02/08	5.6	Cramer's Rule	none	none	
12	02/11	6.1	Vectors	none	none	
13	02/13	6.2	Dot Product	2(e,i), 3e, 4f, 12, 18	none	02/15
14	02/15	6.3	Cross Product	1(b, f), 7, 9, 11	none	02/18
15	02/18	6.4	Vector Projection	7, 9, 11	1, 4	02/20
16	02/20	8.1	Subspaces of $\mathbb{R}^n$	1(a,b), 2a, 3a, 4a, 5a, 6a	none	02/22
17	02/22	8.2	Independent and Dependent Sets of Vectors in $\mathbb{R}^n$	1(a, f), 3a, 6, 8	none	02/25
18	02/25	8.3	Basis and Dimension for Subspaces of $\mathbb{R}^n$	1(a, c), 2(a, c), 3a, 5(a, d)	none	02/27
19	02/27	8.4	Vector Projection onto a Subspace of $\mathbb{R}^n$	2, 4a	5(a, b, d, f)	03/01
20	03/01	8.5	The Gram–Schmidt Orthonormalization Process	none	1c, 2c, 6	03/04
21	03/04	9.1	Basics about Linear Maps	2d, 4, 5, 10	1d, 3	03/08
22	03/08	9.2	The Kernel and Image Subspaces of a Linear Map	1(c, f), 4(b, d)	none	03/11
23	03/11	9.3	Composites of Two Linear Maps and Inverses	none	none	
24	03/13	9.4	Change of Bases for the Matrix Representation of a Linear Map	none	none	
25	03/15	11.1	Pseudoinverse to a Nonsquare Matrix and Almost...	none	none	
26	03/25	11.2	Fits and Pseudoinverses	1, 2, 3, 4	1, 2, 3, 7, 8, 9	04/01
27	03/27	11.3	Least-Squares Fits and Pseudoinverses	none	none	
28	04/01	12.1	What Are Eigenvalues and Eigenvectors...	1, 2, 3, 4, 5, 6	1	04/05
29	04/03	12.2	Summary of Definitions and Methods for...	none		
30	04/05	12.3	Applications of the Diagonalizability of Square Matrices			
31	04/08	12.4	Solving a Square First-Order Linear System of...			
32	04/10	12.5	Basic Facts about Eigenvalues, ...			
33	04/12		<b>Review</b>			
34	04/15		<b>Review</b>			
35	04/17		<b>Review</b>			
36	04/19		<b>Review</b>			
37	04/22		<b>Student Presentations</b>	<b>Joe</b>		
38	04/24		<b>Student Presentations</b>	<b>Birch</b>		
39	04/26		<b>Student Presentations</b>	<b>Chris</b>		
40	04/29		<b>Student Presentations</b>	<b>Andrew</b>		
41	05/01		<b>Student Presentations/Review</b>	<b>Heather</b>		
42	05/03		<b>Student Presentations/Review</b>	<b>Justin</b>		
43	05/06		<b>Final Exam from 14:00-16:00</b>			