Honors Linear Algebra Spring 2022 Schedule

January 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	**3**	**4**	**5**	**6**	**7**	**8**
9	**10**	**11**	**12**	**13**	**14**	**15**
16	**17** MLK Day	**18**	**19** First Day of Class Intro and expectations Before class: make an intro slide	**20**	**21** Section 1.1: Systems of Linear Equations	**22**
23 Homework 1.1 Due at 11:59 pm ET	**24** Section 1.2: Row Reduction and Echelon Forms	**25**	**26** Section 1.3: Vector Equations	**27**	**28** Section 1.3: Vector Equations	**29**
30 Homeworks 1.2 and 1.3 Due at 11:59 pm ET	**31** Class in person in MONT 112 Section 1.4: The Matrix Equation Ax = b Courses dropped after this date will have a "W"					

February 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	**2** Section 1.5: Solutions Sets of Linear Systems	**3**	**4** No Class; Hanson is giving a talk at URI. ~~Section 1.7: Linear Independence~~ Watch these videos	**5**
6 Homeworks 1.4, 1.5 and 1.7 Due at 11:59 pm ET	**7** Quiz 1 Section 1.7: Linear Independence	**8**	**9** Section 1.8: Introduction to Linear Transformations	**10**	**11** Section 1.9: The Matrix of a Linear Transformation	**12**
13 Homeworks 1.8 and 1.9 Due at 11:59 pm ET	**14** Section 2.1: Matrix Operations Quiz 1 corrections and reflection due	**15** Dean's signature required to add courses	**16** Section 2.2: The Inverse of a Matrix and Section 2.3: Characterizations of Invertible Matrices	**17**	**18** Section 2.2: The Inverse of a Matrix and Section 2.3: Characterizations of Invertible Matrices	**19**
20 Homeworks 2.1-2.3 Due at 11:59 pm ET	**21** Quiz 2 Section 3.1: Introduction to Determinants and Material from Section 3.3	**22**	**23** Section 3.1: Introduction to Determinants and Material from Section 3.3	**24**	**25** Section 3.2: Properties of Determinants	**26**
27 Homeworks 3.1 and 3.2 Due at 11:59 pm ET	**28** Cross Products and Determinants Project Quiz 2 corrections and reflection due					

March 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	**2** Cross Products and Determinants Project	**3**	**4** Section 4.1: Vector Spaces and Subspaces	**5**
6 Homework 4.1 Due at 11:59 pm ET	**7** Quiz 3 Section 4.2: Null Spaces, Column Spaces, and Linear Transformations	**8**	**9** Section 4.2: Null Spaces, Column Spaces, and Linear Transformations Section 4.3: Linear Independent Sets	**10**	**11** Section 4.3: Linear Independent Sets Cross Products and Determinants Project due	**12** Spring Break!
13 Spring Break!	**14** Spring Break!	**15** Spring Break!	**16** Spring Break!	**17** Spring Break!	**18** Spring Break!	**19** Spring Break!
20 Homeworks 4.2 and 4.3 Due at 11:59 pm ET	**21** Quiz 3 corrections and reflection due Primary Source Project: Wronskians and Linear Independence	**22**	**23** Primary Source Project: Wronskians and Linear Independence	**24**	**25** Section 4.4: Coordinate Systems	**26**
27 Homework 4.4 Due at 11:59 pm ET	**28** Section 4.5: The Dimension of a Vector Space	**29**	**30** Section 4.6: Change of Basis	**31**		

April 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 Section 4.6: Change of Basis **Primary Source Project due**	**2**
3 Homeworks 4.5 and 4.6 Due at 11:59 pm ET	**4** Section 5.1: Eigenvectors and Eigenvalues ("Eigen" is German for "own" or "inherent")	**5**	**6** Section 5.2: The Characteristic Equation	**7**	**8** Section 5.2: The Characteristic Equation and Section 5.3: Diagonalization	**9**
10 Homeworks 5.1 and 5.2 Due at 11:59 pm ET	**11** **Quiz 4** Section 5.3: Diagonalization Last day to withdraw from a course	**12**	**13** Section 5.4: Eigenvectors and Linear Transformations	**14**	**15** Section 5.4: Eigenvectors and Linear Transformations	**16**
17 Homeworks 5.3 and 5.4 Due at 11:59 pm ET	**18** Section 6.1: Inner Product, Length, and Orthogonality	**19**	**20** Section 6.1: Inner Product, Length, and Orthogonality Section 6.2: Orthogonal Sets	**21**	**22** Section 6.2: Orthogonal Sets	**23**
24 Homeworks 6.1 and 6.2 Due at 11:59 pm ET	**25** Section 6.3: Orthogonal Projections	**26**	**27** Section 6.3: Orthogonal Projections Section 6.4: The Projection Method	**28**	**29** **Last Day of Classes** Section 6.4: The Projection Method Homeworks 6.3 and 6.4 Due at 11:59 pm ET	**30**

May 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1 Last day to complete homeworks 6.3 and 6.4 for full credit.	**2** Exam Week (Final Time and Place TBA)	**3** Exam Week (Final Time and Place TBA)	**4** Exam Week (Final Time and Place TBA)	**5** Exam Week (Final Time and Place TBA)	**6** Exam Week (Final Time and Place TBA)	**7** Exam Week (Final Time and Place TBA)
8	**9**	**10**	**11**	**12**	**13**	**14**
15	**16**	**17**	**18**	**19**	**20**	**21**
22	**23**	**24**	**25**	**26**	**27**	**28**
29	**30**	**31**				