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** Section 1.7: Linear Independence	**5**
6 Homeworks 1.4, 1.5 and 1.7 Due at 11:59 pm ET	**7** Quiz 1 Section 1.8: Introduction to Linear Transformations	**8**	**9** Section 1.8: Introduction to Linear Transformations	**10**	**11** Section 1.9: The Matrix of a Linear Transformation	**12**
13	**14** Section 1.8: Introduction to Linear Transformations Section 1.9: The Matrix of a Linear Transformation Quiz 1 corrections and reflection due	**15** Dean's signature required to add courses	**16** Section 1.9: The Matrix of a Linear Transformation Section 2.1: Matrix Operations	**17**	**18** Section 1.9: The Matrix of a Linear Transformation Section 2.1: Matrix Operations Section 2.2: The Inverse of a Matrix	**19**
20 Homeworks 1.8, 1.9, and 2.1 Due at 11:59 pm ET	**21** Quiz 2 Section 2.1: Matrix Operations Section 2.2: The Inverse of a Matrix	**22**	**23** Section 2.2: The Inverse of a Matrix and Section 2.3: Characterizations of Invertible Matrices	**24**	**25** Section 3.1: Introduction to Determinants and Material from Section 3.3	**26**
27 Homeworks 2.2 and 2.3 Due at 11:59 pm ET	**28** Quiz 2 corrections and reflection due Section 3.1: Introduction to Determinants and Material from Section 3.3					

March 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	**2** Section 3.2: Properties of Determinants	**3**	**4** No Class: Hanson is giving a talk at URI.	**5**
6 Homeworks 3.1 and 3.2 Due at 11:59 pm ET	**7** Quiz 3 Section 4.1: Vector Spaces and Subspaces	**8**	**9** Section 4.1: Vector Spaces and Subspaces Section 4.2: Null Spaces, Column Spaces, and Linear Transformations	**10**	**11** Section 4.2: Null Spaces, Column Spaces, and Linear Transformations	**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 4.1 and 4.2 Due at 11:59 pm ET	**21** Quiz 3 corrections and reflection due Section 4.3: Linearly Independent Sets; Bases Class Cancelled	**22**	**23** Primary Source Project: Wronskians and Linear Independence	**24**	**25** Primary Source Project: Wronskians and Linear Independence	**26**
27 Homework 4.3 Due at 11:59 pm ET Last day to turn in extra credit.	**28** Section 4.3: Linearly Independent Sets; Bases	**29**	**30** Section 4.4: Coordinate Systems	**31**		

April 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 Section 4.5: The Dimension of a Vector Space	**2**
3 Homeworks 4.4 and 4.5 Due at 11:59 pm ET	**4** Cross Products and Determinants Project **Primary Source Project due**	**5**	**6** Section 4.6: Change of Basis	**7**	**8** Section 5.1: Eigenvectors and Eigenvalues ("Eigen" is German for "own" or "inherent")	**9**
10 Homeworks 4.6 and 5.1 Due at 11:59 pm ET	**11** **Quiz 4** Section 5.1: Eigenvectors and Eigenvalues Last day to withdraw from a course	**12**	**13** Section 5.2: The Characteristic Equation Section 5.3: Diagonalization	**14**	**15** Section 5.3: Diagonalization Section 5.4: Eigenvectors and Linear Transformations	**16**
17 Homeworks 5.2, 5.3, and 5.4 Due at 11:59 pm ET	**18** Quiz 3 corrections and reflection due Section 5.4: Eigenvectors and Linear Transformations 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 Cross Products and Determinants Project due	**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**
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22	**23**	**24**	**25**	**26**	**27**	**28**
29	**30**	**31**				