August
2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	*2*	*3*	*4*	*5*	*6*
7	*8*	*9*	*10*	*11*	*12*	*13*
14	*15*	*16*	*17* *First Day of Class* Matrices and Matrix Addition	*18*	*19* Rotation Matrices and Matrix Multiplication Quiz: Matrices and Matrix Addition	*20*
21	*22* Elementary Row and Column Operations Quiz: Rotation Matrices and Matrix Multiplication	*23* Group Work: Matrix Operations	*24* The Method of Gaussian Elimination in Linear Systems Quiz: Elementary Row and Column Operations	*25*	*26* Invertible Matrices Quiz: the Method of Gaussian Elimination in Linear Systems	*27*
28	*29* Vector Spaces Quiz: Invertible Matrices	*30* Group Work: Gaussian Elimination and Matrix Inversion	*31* Span and Linear Independence Quiz: Vector Spaces			

September
2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	Vector Space Dimension *2* Quiz: Span and Linear Independence	*3*
4	*Labor Day* *5*	Group Work: Vector Spaces, Bases, and Dimension *6*	Matrix Rank *7* Quiz: Vector Space Dimension	*8*	Linear Transformations *9* Quiz: Matrix Rank	*10*
11	Kernels and Images of Linear Transformations *12* Quiz: Linear Transformations	Group Work: Rank and Nullity of a Linear Transformation *13*	The Rank-Nullity Theorem *14* Quiz: Kernels and Images of Linear Transformations	*15*	Composition and Inversion of Linear Transformations *16* Quiz: the Rank-Nullity Theorem	*17*
18	Matrices of Linear Transformations *19* Quiz: Composition and Inversion of Linear Transformations	Group Work: Polynomials of Matrices *20*	Change of Basis *21* Quiz: Matrices of Linear Transformations	*22*	Exam I Review *23* Quiz: Change of Basis	*24*
25	**Exam I** *26*	Group Work: the Smith Normal Form of a Matrix *27*	Determinants of 2×2 Matrices *28*	*29*	Determinants of $n \times n$ Matrices *30* Quiz: Determinants of 2×2 Matrices	*1*

October
2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2	The Adjugate of a Matrix *3* Quiz: Determinants of $n \times n$ Matrices	Group Work: Determinants *4*	Polynomials Associated to Matrices *5* Quiz: the Adjugate of a Matrix	*6*	*Fall Break* *7*	*8*
9	Eigenvalues and Eigenvectors *10* Quiz: Polynomials Associated to Matrices	Group Work: the Characteristic and Minimal Polynomials *11*	Eigenspaces *12* Quiz: Eigenvalues and Eigenvectors	*13*	Upper-Triangular Matrices *14* Quiz: Eigenspaces	*15*
16	The Spectral Theorem I *17* Quiz: Upper-Triangular Matrices	Group Work: Eigenvalues, Eigenvectors, and Eigenspaces *18*	The Spectral Theorem II *19* Quiz: the Spectral Theorem I	*20*	The Rational Canonical Form *21* Quiz: the Spectral Theorem II	*22*
23	The Jordan Canonical Form *24* Quiz: the Rational Canonical Form	Group Work: Computing the Canonical Forms *25*	Exam II Review *26* Quiz: the Jordan Canonical Form	*27*	**Exam II** *28*	*29*
30	Real Vector Spaces *31*					

November
2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		Group Work: Real Vector Spaces *1*	The Dot Product *2* Quiz: Real Vector Spaces	*3*	Parametric Equations *4* Quiz: the Dot Product	*5*
6	Lines and Planes *7* Quiz: Parametric Equations	Group Work: Lines and Planes *8*	Inner Products *9* Quiz: Lines and Planes	*10*	Orthogonal Bases *11* Quiz: Inner Products	*12*
13	The Orthogonal Complement of a Vector Space *14* Quiz: Orthogonal Bases	Group Work: the Gram-Schmidt Process *15*	Linear Functionals *16* Quiz: the Orthogonal Complement of a Vector Space	*17*	The Dual Space *18* Quiz: Linear Functionals	*19*
20	Exam III Review *21* Quiz: the Dual Space	**Exam III** *22*	*Thanksgiving Break* *23*	*24*	*Thanksgiving Break* *25*	*26*
27	Final Exam Review: Matrices and Vector Spaces *28*	Group Work: Final Exam Review *29*	Final Exam Review: Canonical Forms of Matrices *30*			

December
2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	Final Exam Review: Inner Product Spaces *2*	*3*
4	*Final Exam Week* *5*	*Final Exam Week* *6*	*Final Exam Week* *7*	**Final Exam** *8* 1:00 to 4:00 PM	*Final Exam Week* *9*	*10*
11	*12*	*13*	*14*	*15*	*16*	*17*
18	*19*	*20*	*21*	*22*	*23*	*24*
25	*26*	*27*	*28*	*29*	*30*	*31*