

**Tentative Schedule for MTH 341
Fall 2018**

	Monday	Tuesday	Wednesday	Thursday	Friday
Sep.				20	21 Introduction, linear systems, matrix row operations
Sep.	24 Gauss-Jordan form, application to solve linear systems	25	26 Homogeneous, nonhomogeneous linear systems	27	28 HW 1 due Matrix operations
Oct.	1 Row operations and elementary matrices, matrix inverse	2	3 Quiz 1, Matrix inverse & solving linear systems	4	5 HW 2 and Lab 1 due Other applications of matrix inverse
Oct.	8 Determinant, basket-weave method	9	10 Quiz 2, Application of determinant, Cramer's rule	11	12 HW 3 due More applications of determinant
Oct.	15 Space R^n , linear dependence, spanning sets	16	17 Quiz 3, Linearly independent sets, spanning sets, bases	18	19 HW 4 and Lab 2 due Subspaces of R^n , determining bases
Oct.	22 Row space, column space, null space, determining bases	23	24 Midterm review	25	26 HW 5 due Midterm (In class)
Oct./Nov.	29 Row, column, null spaces	30	31 Quiz 4, Linear transformations, matrix representation	1	2 HW 6 and Lab 3 due Representation of linear transformation in bases
Nov.	5 Some special linear transformations	6	7 Quiz 5, Eigenvalues and eigenvectors	8	9 HW 7 due Matrix diagonalization: multiplicity & eigenspaces
Nov.	12 No class (Veterans Day observed)	13	14 Quiz 6, Nondiagonalizable matrices	15	16 HW 8 and Lab 4 due Applications of matrix diagonalization
Nov.	19 Complex eigenvalues & eigenvectors	20	21 Quiz 7, Eigenvalues of special matrices	22	23 No class (Thanksgiving)
Nov.	26 More applications of eigenvalues / eigenvectors	27	28 HW 9 due, Quiz 8, Final exam review	29	30 (last day of class) Lab 5 due Final exam review
Dec.	3	4	5 Final exam 12:00 PM, Room TBD	6	7