

Spring 2018 Matrinomials

TUESDAYS		FRIDAYS	
1/16	Polynomials	1/19	Polynomials
1/23	Matrix Powers	1/26	Matrix powers and properties
1/30	Eigenvalues, Eigenvectors, characteristic polynomial, diagonalizability. Cayley Hamilton Theorem	2/2	Eigenvalues, Eigenvectors, characteristic polynomial, diagonalizability. Cayley Hamilton Theorem
2/6	Eigenvalues, Eigenvectors, characteristic polynomial, diagonalizability. Cayley Hamilton Theorem	2/9	Eigenvalues, Eigenvectors, characteristic polynomial, diagonalizability. Cayley Hamilton Theorem
2/13	circulant matrices and derivation of cubic and quartic formulas; elementary symmetric functions	2/16	circulant matrices and derivation of cubic and quartic formulas; elementary symmetric functions
2/20	difference equations, companion matrices, solving the general nocchlope using matrix methods	2/23	difference equations, companion matrices, solving the general nocchlope using matrix methods
2/27	Review / Catchup	3/2	Review / Catchup
3/6	Midterm Exam	3/9	Harvey Plotter
3/13	spring break	3/16	spring break
3/20	Monorootic Case and Jordan Form	3/23	Monorootic Case and Jordan Form
3/27	Monorootic Case and Jordan Form	3/30	Sums of integer powers
4/3	Newton's Identities	4/6	Matrix Exponentials and systems of differential eqns
4/10	Matrix Exponentials and systems of differential eqns	4/13	
4/17	Companion Matrices, JCF, 2D case	4/20	Marden's Theorem
4/24	Fibonacci Numbers Exposed	4/27	Last Class / minute math
5/1		5/4	Final Exam 11:20 - 1:50