

Lecture	Date	Section	Topic
Lecture 1	Tuesday Mar 31 <sup>st</sup>	8.1	Intro Algebraic theory of complex numbers
Lecture 2	Thursday April 2 <sup>nd</sup>	8.2 8.3	Geometric theory of complex numbers Polar forms of complex numbers
Lecture 3	Tuesday April 7 <sup>th</sup>	8.4 1.1	Complex polynomials and roots Linear systems of equations
Lecture 4	Thursday April 9 <sup>th</sup>	1.2	Echelon forms and ranks
Lecture 5	Tuesday April 14 <sup>th</sup>	1.3 2.1	Applications of linear systems Matrix algebra
Lecture 6	Thursday April 16 <sup>th</sup>	2.2	Inverses
Lecture 7	Tuesday April 21 <sup>st</sup>	2.3 2.4	LU factorization Applications
Lecture 8	Thursday April 23 <sup>rd</sup>	3.1	Spaces of vectors
Lecture 9	Tuesday April 28 <sup>th</sup>	3.2	Span, linear independence
Lecture 10	Thursday April 30 <sup>th</sup>	Mid-term	
Lecture 11	Tuesday May 5 <sup>th</sup>	3.2 3.3	Bases, dimension Null space, column space, row space
Lecture 12	Thursday May 7 <sup>th</sup>	3.4	Linear transformations in $\mathbb{R}^n$
Lecture 13	Tuesday May 12 <sup>th</sup>	5.1 5.2	Determinants
Lecture 14	Thursday May 14 <sup>th</sup>	4.1	Dot products, norms of vectors
Lecture 15	Tuesday May 19 <sup>th</sup>	4.2 4.3	Orthogonality Orthogonal subspaces, projections, bases
Lecture 16	Thursday May 21 <sup>st</sup>	4.4	Applications
Lecture 17	Tuesday May 26 <sup>th</sup>	6.1 6.2	Eigenvalues Diagonalization
Lecture 18	Thursday May 28 <sup>th</sup>	6.3 6.4	Applications
Lecture 19	Tuesday June 2 <sup>nd</sup>	7	General vector spaces Review
Lecture 20	Thursday June 4 <sup>th</sup>		Review
Final Exam	Tuesday June 9 <sup>th</sup>	7:30-10:30 pm	