

Lecture schedule based on Axler *Algebra and Trigonometry, 1st edition*

Section	Lectures	Topic
1.3	1.5	Inequalities, intervals, and absolute value
2.1	1	The coordinate plane
2.2	1	Lines
2.3	1	Quadratic expressions and conic sections (omit ellipse and hyperbola)
3.1	1	Functions
3.2	1.5	Function transformations and graphs
3.3	1	Composition of functions
3.4	1	Inverse functions
3.5	1	A graphical approach to inverse functions
4.1	1	Integer exponents
4.2	1.5	Polynomials
4.3	1.5	Rational functions
5.1	1	Exponents and exponential functions
5.2	1	Logarithms as inverses of exponential functions
5.3	1	Applications of logarithms (change of base is optional)
5.4	1	Exponential growth
6.1	1	Defining e and \ln
6.3	1	Exponential growth revisited
7.1	1	Equations and systems of equations
7.2	1	Solving systems of linear equations
9.1	1	The unit circle
9.2	1	Radians
9.3	1	Cosine and sine
9.4	1	More trigonometric functions
9.5	1	Trigonometry in right triangles
9.6	1	Trigonometric identities
10.1	1	Inverse trigonometric functions
10.2	1	Inverse trigonometric identities
11.2	1.5	Transformations of trigonometric functions

Optional (if time allows): 10.4 (The law of sines and the law of cosines), 10.5 (Double angle and half angle identities).