

MAC 1105 College Algebra (Summer C 2018 – Current)

Florida State University

Course Sequence:

Science Majors: MAC1105 (College Algebra)-MAC1140 (Precalculus) and MAC1114 (Trigonometry)-MAC2311 (Calculus I)

Business Majors: MAC1105 (College Algebra)-MAC2233 (Business Calculus)

Liberal Arts Majors: College Algebra is not required. May take MAC1105, MGF1106, MGF1107 in any sequence

Course Topics

Text: Algebra and Trigonometry, 10th ed, Sullivan, Prentice Hall. **Also: MyMathLab**

Section Topic

R4	Polynomials	4.1	Properties of Linear Functions and Models
R5	Factoring Polynomials	4.3	Quadratic Functions and properties
R7	Rational Expressions	4.4	Build Quadratic models from verbal descriptions
R8	n th Roots; Rational Exponents	5.4	Polynomial and Rational Inequalities
1.1	Linear Equations	6.1	Composite Functions
1.2	Quadratic Equations	6.2	One-to-one Functions; Inverse Functions
1.4	Radical Equations;	6.3	Exponential Functions
1.5	Solving Inequalities	6.4	Logarithmic Functions
2.1	Distance and Midpoint formulas	6.5	Properties of Logarithmic Functions
2.2	Graphs, Intercepts, Symmetry	6.6	Logarithmic and Exponential Equations
2.3	Lines	12.1	Systems of Linear Equations
2.4	Circles	12.7	Systems of Inequalities
3.1	Functions		
3.2	Graph of a Function		
3.3	Properties of Functions		
3.4	Library of Functions; Piecewise Functions		
3.5	Graphing Techniques; Transformations		