

Summer Session 1 2018 - Math 2A suggested syllabus

Text: Calculus: Early Transcendentals, Stewart, 8th Edition

LECTURE	DATE	SECTION	TOPIC(S)
1	6/25	1.1, 1.2, 1.3	Course Introduction, Function Representations Mathematical Models: Catalog of Functions Transformations of Functions (Have TAs finish these sections in discussion)
2	6/27	1.4, 1.5	Exponential Functions Inverse Functions and Logarithms Inverse Trigonometric Functions
3	6/29	2.1, 2.2, 2.3	Tangent and Velocity Problems Limit of a Function Calculating Limits from Limit Laws
4	7/2	2.5, 2.6	Continuity Limits at Infinity Horizontal Asymptotes
5	7/6	2.7, 2.8	Derivative and Rate of Change Derivative as a function
6	7/9	3.1, 3.2	Derivative of a Polynomial and Exponential Function Product and Quotient Rules
7	7/11	3.3, 3.4	Derivative of Trigonometric Functions Chain Rule
8	7/13	3.5, 3.6	Implicit Differentiation Derivative of Logarithm Functions
9	7/16	3.8	Midterm Exam Exponential Growth and Decay
10	7/18	3.9, 3.10	Related Rates Linear Approximation and Differentials, Review
11	7/20	4.1, 4.2	Maximum and Minimum Values Mean Value Theorem
12	7/23	4.3, 4.4	How derivatives affect the shape of a graph Intermediate Forms and L'Hospital's rule
13	7/25	4.5	Curve Sketching
14	7/27	4.7	Optimization
15	7/30	4.9	Antiderivatives Review for the Final on 8/1