Summer Session 2 2018 - Math 2A suggested syllabus

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

LECTURE	DATE	SECTION	TOPIC(S)
1	8/6	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	8/8	1.4, 1.5	Exponential Functions
			Inverse Functions and Logarithms
			Inverse Trigonometric Functions
3	8/10	2.1, 2.2, 2.3	Tangent and Velocity Problems
			Limit of a Function
			Calculating Limits from Limit Laws
4	8/13	2.5, 2.6	Continuity
			Limits at Infinity
			Horizontal Asymptotes
5	8/15	2.7, 2.8	Derivative and Rate of Change
			Derivative as a function
6	8/17	3.1, 3.2	Derivative of a Polynomial and Exponential
			Function
			Product and Quotient Rules
7	8/20	3.3, 3.4	Derivative of Trigonometric Functions
			Chain Rule
8	8/22	3.5, 3.6	Implicit Differentiation
			Derivative of Logarithm Functions
9	8/24		Midterm Exam
		3.8	Exponential Growth and Decay
10	8/27	3.9, 3.10	Related Rates
			Linear Approximation and Differentials, Review
11	8/29	4.1, 4.2	Maximum and Minimum Values
			Mean Value Theorem
12	8/31	4.3, 4.4	How derivatives affect the shape of a graph
			Intermediate Forms and L'Hospital's rule
13	9/5	4.5	Curve Sketching
14	9/7	4.7	Optimization
15	9/10	4.9	Antiderivatives
			Review for the Final on 9/12