

### Syllabus Math 2A Fall 2016

Date	Section	Topic
09/23	1.1, 1.2, 1.3	Four ways to represent a function, Mathematical models. Transformations of graphs
09/26	1.4	Exponential Functions. Start 1.5.
09/28	1.5	Inverse Functions and logarithms
09/29	up to 1.4	<b>Quiz 1</b>
09/30	2.1, 2.2	Tangent and Velocity Problems, Limit of a Function
10/03	2.3	Calculating Limits from Limit Laws
10/05	2.5	Continuity
10/06	up to 2.3	<b>Quiz 2</b>
10/07	2.6	Limits at Infinity, Horizontal Asymptotes
10/10	2.7	Derivative and Rate of change
10/12	2.8	Derivative as a function
10/13	up to 2.7	<b>Quiz 3</b>
10/14		Review <b>Webwork 1 due</b> contents: chapter 1
10/17		<b>Midterm 1</b>
10/19	3.1, 3.2	Derivative of a Polynomial and Exponential Function, Product and Quotient Rules
10/20	up to 2.8	<b>Quiz 4</b>
10/21	3.2, 3.3	Derivative of Trigonometric Functions <b>Webwork 2 due</b> ; contents: up to 2.6
10/24	3.4	Chain Rule
10/26	3.5	Implicit Differentiation
10/27	up to 3.4	<b>Quiz 5</b>
10/28	3.6, 3.8	Derivative of Logarithm Functions <b>Webwork 3 due</b> ; contents: up to 2.8
10/31	3.8, 3.9	Exponential Growth and Decay
11/02	3.9	Related Rates
11/03	up to 3.8	<b>Quiz 6</b>
11/04	3.10	Linear Approximation and Differentials, Review <b>Webwork 4 due</b> ; contents: up to 3.3
11/07		<b>Midterm 2</b>
11/09	4.1	Maximum and Minimum Values
11/10	up to 3.10	<b>Quiz 7</b>
11/11		<b>Veteran's Day</b> <b>Webwork 5 due</b> ; contents: up to 3.6
11/14	4.2	Mean Value Theorem
11/16	4.3	How derivatives affect the shape of a graph
11/17	up to 4.2	<b>Quiz 8</b>
11/18	4.4	Intermediate Forms and L'Hopital's rule <b>Webwork 6 due</b> ; contents: up to 3.9
11/21	4.5	Curve Sketching
11/23	4.7	Optimization (Note: this class may be moved to 11/22 during discussion)
11/25		<b>Thankgivings Holiday</b> <b>Webwork 7 due</b> ; contents: up to 4.2
11/28	4.9	Antiderivatives
11/30		Catch-up and Review
12/01	up to 4.9	<b>Quiz 9</b>
12/02		Review for final <b>Webwork 8 due</b> ; contents: up to 4.7
12/03		<b>Final @ 1:30-3:30pm</b>