

Math 115 - Calculus of Functions of One Variable II
Fall 2017 Schedule

Video	Topic	M/W/F	T/Th
5.1-5.2	Riemann Sums	9/1	8/31
5.3.1	Fundamental Theorem of Calculus	9/6	9/5
5.5.1	Substitution	9/8	9/7
6.1.1	Area Between Curves	9/8	9/7
6.2.1	Volume - Disks	9/11	9/12
6.3.1	Volume - Shells	9/13	9/12
7.1.1	Integration by Parts	9/15	9/14
7.5.1	Strategies for Integration	9/18	9/19
8.1.1	Arc Length	9/20	9/19
7.7.1	Integral Approximation Techniques	9/22	9/21
7.7.2	Integral Approximation Error, Part 1	9/22	9/21
7.7.3	Integral Approximation Error, Part 2	9/25	9/26
7.8.1	Improper Integrals	9/27	9/26
7.8.2	p -test	9/27	9/28
7.8.3	Comparison Test	9/29	9/28
End Midterm 1 Material			
11.1.1	Sequences, Part 1	10/2	10/3
11.1.2	Sequences, Part 2	10/2	10/3
11.2.1	Series	10/4	10/5
11.3.1	Integral Test	10/6	10/5
11.4.1	Comparison Test	10/9	10/10
11.4.2	Limit Comparison Test	10/9	10/10
11.5.1	Alternating Series Test, Part 1	10/11	10/12
11.5.2	Alternating Series Test, Part 2	10/13	10/12
11.6.1	Ratio Test	10/16	10/17
11.7.1	Strategies for Testing Series	10/16	10/17
11.8.1	Power Series	10/23	10/24
11.9.1	Making New Power Series from Old, Part 1	10/25	10/24
No Video	Making New Power Series from Old, Part 2	10/27	10/26
11.10.1	Taylor Series	10/30	10/31
11.10.2	Taylor Series & Error	11/1	10/31
11.11.1	Taylor Series - Special Relativity	11/3	11/2
11.11.2	Taylor Series - Application	11/3	11/2
10.1.1	Parametric Functions, Part 1	11/6	11/7
10.1.2	Parametric Functions, Part 2	11/8	11/9
10.2.1	Calculus on Parametric Functions	11/10	11/9
End Midterm 2 Material			
10.3.1	Polar Coordinates	11/13	11/14
10.3.2	Calculus on Polar Functions - Derivatives	11/15	11/16
10.4.1	Calculus on Polar Functions - Integrals	11/17	11/16
9.1.1	Modeling with Differential Equations	11/27	11/28
9.2.1	Direction Fields	11/29	11/28
9.2.2	Euler's Method	12/1	11/30
9.3.1	Separation of Variables	12/4	12/5
9.4.1	Models for Population Growth	12/6	12/5
9.6.1	Predator-Prey Systems	12/8	12/7