

Syllabus for Math 263A Analytic Geometry and Calculus I Section 04 (Barsamian)

Ohio University Winter Quarter 2006

Date	Section	Topic	Group Work	MatLab Due
Tues 3 Jan	2.1	The Tangent and Velocity Problems		
Thurs 5 Jan	2.2	The Limit of a Function		
Fri 6 Jan	2.3	Quiz; Calculating Limits using Limit Laws		ML1 Due: Plotting Functions
Mon 9 Jan		Leftovers & Group Work	GW1: 2.3#42	
Tues 10 Jan	2.4	Precise Definition of Limit		ML2 due: Solving Equations
Thurs 12 Jan	2.5	Continuity		
Fri 13 Jan	2.6	Limits at infinity - Horizontal Asymptotes	GW2: 2.5#38	ML3 Due: Limits
Mon 16 Jan	Holiday: no class			
Tues 17 Jan	2.7	Tangents, Velocites, and Other Rates	GW3: 2.6#46	
Thurs 19 Jan	2.8	Derivatives	GW4: 2.7#24	ML4 Due: Limits and Derivatives
Fri 20 Jan	2.9	The Derivative as a Function	GW5: 2.8#32	
Mon 23 Jan		Leftovers, Group Work, and Review	GW6: 2.9#38	ML5 Due: Derivatives
Tues 24 Jan	Exam #1 on Chapter 2			
Thurs 26 Jan	3.1	Derivatives of Polynomials and Exponentials		
Fri 27 Jan	3.2	The Product and Quotient Rules	GW7: 3.1#51	
Mon 30 Jan		Leftovers & Group Work	GW8: 3.2#24,40	ML6 Due:Exponentials vs Powers
Tues 31 Jan	3.3	Rates of Change in Natural & Social Sciences		
Thurs 2 Feb	3.4	Derivatives of Trigonometric Functions	GW9: 3.3#33	
Fri 3 Feb	3.5	The Chain Rule		
Mon 6 Feb		Leftovers & Group Work	GW10: 3.5#44,60	
Tues 7 Feb	3.6	Implicit Differentiation		
Thurs 9 Feb	3.7	Higher Derivatives	GW11: 3.6#24	
Fri 10 Feb	3.8	Derivatives of Logarithmic Functions	GW12: 3.7#50,56	
Mon 13 Feb		Leftovers & Group Work		
Tues 14 Feb	3.9	Hyperbolic Functions		
Thurs 16 Feb	3.10	Related Rates		
Fri 17 Feb	3.11	Linear Approximations and Differentials	GW13: 3.10#6,28	
Mon 20 Feb		Group Work and Review	GW14: 3.11#44	
Tues 21 Feb	Exam #2 on Chapter 3			
Thurs 23 Feb	4.1	Maximum and Minimum Values		
Fri 24 Feb	4.9	Newton's Method	GW15: 4.1#60,70	
Mon 27 Feb		Leftovers & Group Work	GW16: 4.9#12,33	ML7 Due: Newton's Method
Tues 28 Feb	4.2	The Mean Value Theorem		
Thurs 2 Mar	4.3	How Derivatives Affect the Shape of a Graph	GW17: 4.2#34	
Fri 3 Mar	4.5	Summary of Curve Sketching	GW18: 4.3#60,62	
Mon 6 Mar	4.5	Summary of Curve Sketching	GW19: 4.5#66	
Tues 7 Mar	4.7	Optimization Problems		
Thurs 9 Mar	4.7	Optimization Problems	GW20: 4.7 #38,40	
Fri 10 Mar		Review		
_____	Common Final Exam (Cumulative: covers the entire course) _____ - _____ in _____			