

**APPLIED CALCULUS  
FALL 2009 ~ MATH 1220 – C**

**Instructor Marvalisa M. Payne**

**Disclaimer: This schedule is at all times tentative. Any changes announced in class (as to dates of exams, etc.) supersede this document. You are responsible for being aware of changes. Changes will be made in blue.**

LECTURE			SEC	TOPIC	HOMEWORK ASSIGNMENT	
1	M	8/17	1.2	Graphs of Eqs.; Break-Even and Equilibrium Pts.	13 – 38 odd; 55 – 62 odd; 63 – 70 odd	
2	W	8/19	1.4	Review of Functions; Business Applications	1 – 30 odd; 35 – 42 odd; 47 – 58 odd, 74, 75, 76	
3	F	8/21				
4	M	8/24	1.5	Limits	1 – 39 odd	
5	W	8/26	1.6	Continuity	1 – 22 odd; 25 – 28 odd; 35 – 44; odd	
6	F	8/28	2.1	Definition of Derivative, Slope, Tangent Line	1 – 9, 14, 15 – 55 odd	
7	M	8/31		<b>REVIEW: CH.1:</b> 38 - 62 ,69, 70;75 – 94; <b>CH 2.:</b> pg 166 1,8 –15, 25		
<b>8</b>	<b>W</b>	<b>9/2</b>	<b>TEST 1 – Ch. 1 and Ch. 2 (Sec. 2.1)</b>			
9	F	9/4	2.2	Rules of Derivative	1 – 51 odd, 55, 59, 61	
	<b>M</b>	<b>9/7</b>	<b>LABOR DAY</b>			
10	W	9/9	2.3	Rates of Change, Marginals	3 – 11 odd; 15 – 41 odd	
11	F	9/11				
12	M	9/14	2.4	Product and Quotient Rules	1 – 59 odd	
13	W	9/16	2.5	Chain Rule	1 – 71 odd, 75	
14	F	9/18	2.6	Higher Order Derivatives	1 – 39 odd, 47, 48	
15	M	9/21	2.7	Implicit Differentiation	1 – 29 odd, 41, 45	
16	W	9/23		<b>REVIEW</b>	17 – 23, 31 – 43, 47 – 77, 81 – 87, 91 -97	
<b>17</b>	<b>F</b>	<b>9/25</b>	<b>TEST 2 – Chapter 2</b>			
18	M	9/28	3.1	Increasing and Decreasing Functions	1 – 29 odd, 40	
19	W	9/30				
20	F	10/2	3.2	Extrema and 1 <sup>st</sup> Derivative Test	1 – 39 odd, 44, 45	
21	M	10/5	3.3	Concavity and 2 <sup>nd</sup> Derivative Test	1 – 43 odd, 49 – 53 odd, 55	
22	W	10/7	3.4	Optimization	1, 13, 19	
23	F	10/9	3.5	Business and Economics Applications	1 – 21 odd	
<b>24</b>	<b>M</b>	<b>10/12</b>	<b>MIDTERM</b>			<b>WITHDRAW w/o FAILING DEADLINE</b>
				<b>REVIEW</b>	1–29 odd, 33 – 45 odd, 50, 54, 55	
<b>25</b>	<b>W</b>	<b>10/14</b>	<b>TEST 3 – Chapter 3</b>			
26	F	10/16	4.1	Exponential Functions	1 – 31 odd, 37	
27	M	10/19	4.2	Natural Exponential Functions	1 – 47 odd, 51	
28	W	10/21	4.3	Derivatives of Exponentials	1 – 35 odd, 41, 45	
29	F	10/23	4.4	Logarithm Functions	1 – 49 odd	
30	M	10/26			51 – 69 odd, 70, 72	
31	W	10/28	4.5	Derivatives of Logarithmic Functions	1 – 57 odd, 67, 71, 73, 77, 79	
32	F	10/30		<b>REVIEW:</b> 1 – 27 odd, 31, 33, 37 – 43 odd, 46, 47 – 57 odd 63 – 87, odd, 95 – 108 odd, 113 – 123 odd		
<b>33</b>	<b>M</b>	<b>11/2</b>	<b>TEST 4 – Chapter 4</b>			
34	W	11/4	3.8	Differentials and Marginal Analysis	11, 15, 19, 25, 27, 29, 31	
35	F	11/6	5.1	Antiderivatives and Indefinite Integrals	1 – 73 odd, 79	
36	M	11/9				
37	W	11/11	5.2	The General Power Rule and U-Substitution	1 – 53 odd	
38	F	11/13	5.3	Exponential and Logarithm Integrals	1 – 55 odd	
39	M	11/16	5.4	Area, Fundamental Theorem of Calculus	1 – 31 odd, 43, 57, 61, 67 odd 75 – 79 odd, 91	
40	W	11/18	5.5	Area, Bounded by Two Graphs	1 -13 odd, 19, 41, 43, 49, 51, 55	
41	F	11/20		<b>REVIEW: CH. 3:</b> 87, 91, 93; <b>CH. 5:</b> 1 – 13 odd, 17 – 47 odd, 53, 55, 59, 96, 77		
<b>42</b>	<b>M</b>	<b>11/23</b>	<b>TEST 5</b>			
		<b>11/ 25–27</b>	<b>THANKSGIVING</b>			
43	M	11/30				
<b>44</b>	<b>W</b>	<b>12/2</b>		Review For Final		
<b>FINAL EXAM: Wednesday December 9<sup>th</sup> / 10:00 – Noon/ LOCATION: AH 362 (Unless Otherwise Stated)</b>						