COURSE SCHEDULE

This schedule reflects the main flow of the semester; dates of lecture content are tentative and may shift slightly as the semester progresses. Adjust the pace of your homework assignments according to what is happening in lecture.

	Tentative Schedule			
	Date	Day	Class Discussion	Suggested Textbook Exercises
Unit 1: Functions and Limits				
Wk 1	Jan. 15	W	Introduction	
	Jan. 17	F	Calculator Skills: **Mod 1 all, 2.1, 2.3, 3.1, 3.2, 3.3, 4.2**	**1.3** – 21-23, 39, 45 (use calculator to do these) **2.1**- 1, 3, 5, 9, 11 **2.2** – 1-7 odd, 17-21 odd, 25-29 odd, 45, 47, 53, 55, 57, 79-85 odd Applications of Functions **3.1** – 1-15 odd, 16, 21-29 odd, 35, 37, 39-51 odd **3.2** – 1-11 odd, 15 – 47 odd **3.3** – 1-29 odd **3.4** – 17, 19 **3.5** – 1, 3, 5 Applications of Limits
Wk 2	Jan. 20	M	**MLK Jr. Day no class**	
	Jan. 22	W	Calculator Skills continued 2.1.1 Growth and Decay	
	Jan. 24	F	2.2.1 and 2.2.3 Sequences	
Wk 3	Jan. 27	M	3.1 Limits 3.2 Continuous Functions **Mod 6.2, 6.3**	
	Jan. 29	W	3.2 continued **Mod 8.1, 8.2**	
	Jan. 31	F	3.3 Limits at Infinity **Mod 7.1, 7.2**	
Wk 4	Feb. 3	M	3.4 Sandwich Theorem	
	Feb. 5	W	3.5.1 Intermediate Value Theorem	
	Feb. 7	F	**Test 1 – Ch. 2-3**	
Unit 2: Derivatives (Power, Product, and Quotient Rules; Direction and Extrema)				
Wk 5	Feb. 10	M	4.1 Definition of Derivative 4.2 Differentiability and Interpretation **Mod 10.1, 10.2, 10.3**	**4.1** – 1-21 odd **4.2** – 1-15 odd, 23-39 odd **4.3** – 1-29 odd; 43-53 odd , 63-71 **4.4** – 1-7 odd, 17-29 odd, 49-67 odd, 71, 73, 75 Applications of Derivatives (Rates of Change) **5.1** – 1-7 odd, 13-25 odd, 28, 35-41 odd, 47 **5.2** – 1, 3, 5, 9 (find direction only using first derivatives) **5.3** – 1, 7, 13, 15 **5.4** – 1, 3, 5, 7 Applications of Derivatives (Means and Extremes)
	Feb. 12	W	4.2 continued (Tangent Line and Normal Line)	
	Feb. 14	F	4.3 Power, Constant Multiplier, and Sum Rules 4.4 Product and Quotient Rules **Mod 11.1, 11.2, 12.1**	
Wk 6	Feb. 17	M	4.4 continued	
	Feb. 19	W	**Bible Conference no class**	
	Feb. 21	F	**Bible Conference no class**	
Wk 7	Feb. 24	M	5.1 Extrema and the Mean Value Theorem **Mod 13.1, 13.2, 13.3, 13.4**	
	Feb. 26	W	5.2.1 Direction/Monotonicity	
	Feb. 28	F	5.3.1 Extrema and Critical Values	
Wk 8	Mar. 3	M	5.4 Optimization **Mod 14.1, 14.2**	
	Mar. 5	W		
	Mar. 7	F	**Test 2**	
Unit 3: Derivatives (Chain, Trig, and Exp Rules; Concavity/Inflection)				
Wk 9	Mar. 10	M	4.7 Higher Orders	**4.7** – 1-11 odd **5.2** – 1, 3, 5, 9 (finish full instructions) **5.3 –** 1, 7, 13, 15 (determine concavity and inflections) **4.5** – 1-11 odd, 17, 19 Applications of Derivatives (Concavity and Inflections) **4.8** – 1, 3, 5, 9, 15, 19, 23, 27, 45, 51, 53, 65, 67, 71
	Mar. 12	W	5.2.2, 5.3.2 Concavity, Inflections	
	Mar. 14	F	4.5 Chain Rule	
Wk 10	Mar. 17	M	4.8 Sine & Cosine	
	Mar. 19	W	4.9 Exponential	
	Mar. 21	F	4.10.2 Logarithmic	

	Tentative Schedule			
	Date	Day	Class Discussion	Suggested Textbook Exercises
	Mar. 24-28		**Spring Break no classes**	**4.9** – 1, 5, 9, 13, 17, 21, 33, 39, 49 **4.10** – 23, 27, 31, 35, 43, 47, 49, 51 Applications of Derivatives (Periodic, Surge, Logistic…) **5.2 Revisited –** 7-19 odd (follow all instructions) **5.3 Revisited** – 3, 5, 9, 11, 23-29 odd **5.6** – 1, 9, 11, 13, 15, 17, 19 Applications of Functions, Limits, and Derivatives
Wk 11	Mar. 31	M	5.2.2 Concavity Revisited 5.3.2 Inflections Revisited	
	Apr. 2	W	5.6 Graphing & Asymptotes	
	Apr. 4	F		
Unit 4: Integration				
Wk 12	Apr. 7	M	**Test 3**	**5.10** Antiderivatives – Read 5.10 through Example 6. Work the following: 1, 3, 7, 21, 25, 59, 63, 65, 69
	Apr. 9	W	**University Service Day no class**	
	Apr. 11	F	6.1 Intro to the Definite Integral **Mod 17.1, 17.2**	**6.1** – 1, 5, 9, 11, 37, 39 **6.2** – 1, 5, 9, 39, 43, 47, 51, 57, 59, 63, 65, 89, 91, 97, 101, 105, 113, 115, 119 **6.3** – 11, 13, 17, 23-33 odd Applications of Integration **7.1** -1-15 odd, 17, 21, 25, 29, 33, 43, 47, 49, 55 Applications Review
Wk 13	Apr. 14	M	6.2 FTC Part 1 **Mod 17.3, 18.1, 18.2, 18.3**	
	Apr. 16	W	6.2 FTC Part 2	
	Apr. 18	F	6.3.2 Average Value	
Wk 14	Apr. 21	M	6.3.3 Area Between Curves	
	Apr. 23	W		
	Apr. 25	F	**Test 4**	
Wk 15	Apr. 28	M	7.1 Integration by Substitution	
	Apr. 30	W		
	May 2	F		
	May 5	M	**Final Exam (8:00-9:10am)**	