

# September 2006

Sun	Mon	Tue	Wed	Thu	Fri	Sat
<p><u>Course title</u> : Advanced Calculus (AB)  <u>Textbook used</u>: Calculus by Larson/ Hostetler/Edwards 4th edition                      Heath Publication  <u>Calculator used</u>: TI-83+</p>						
		<p>11 <u>Evaluate Limits</u> Pg. 82/ 6-18 E 89/ 18-36E no table 24 and skip 26</p>	<p>6 Pass Out calculator worksheets and books</p>	<p>7 <u>Lines &amp; Functions</u> Pg. 26/ 50, 54,, 64 34-35/ 18-22e, 44, 46 44-46/ 15-18 int., 24, 28, 42 abef</p>	<p>8 <u>Trig Functions</u> Pg. 57-58/ 1, 3, 6, 8, 13, 18, 22, 24, 44, 50</p>	2
10	<p>12 <u>Vert. Asymptotes and Limits w/ Graphs</u> Pg. 107/ 1-4 115 work sheet Set 1 w/graph on</p>	<p>13 <u>Piecewise Limits</u> *Trig Quiz Pg. 129 worksheet (front and back) 98/ 7-11 (book)</p>	<p>14 <u>Continuous Functions (w/ piecewise)</u> Pg. 98-99/ 16-20, 30-38E, 39-44 all All value thrms</p>	<p>15 <u>More Piecewise Defined</u> Review for Test Pg. 129 worksheet 39/ wrksht (Barons) Test form B ch. 2</p>	16	
17	<p>18 Test Limit Review ( last two pages of packet)</p>	<p>19 <u>Derivatives- Go over rules worksheet</u> Pg.137/ 27-29, 31-34, 39, 40 146/ 8, 9, 25, 27, 29, 31, 37, 41</p>	<p>20 <u>Chain Rule &amp; More Chain Rule</u> Pg. 155/ 1, 3, 7-10, 19-28, 45 (Eq. for a tan line)</p>	<p>21 <u>Chain w/ Product</u> Set 3 worksheet( due Tuesday) Pg. 155/ 14, 16,17,33, 34, 36, 37</p>	22 <u>Chain w/ Trig</u> Anton p.211 Worksht 155/ 18, 30, 32	23
24	<p>25 <u>Eq. of a Tan Line and Limit as a Derv.</u> Pg. 74B 173/ 1, 4, 8, 11 13, 20, 26,29, 35, 59, 60</p>	<p>26 <u>Inc/Dec Min/Max &amp; Concavity</u> Pg. 197/ 1-5 ( use graphs),10,11,14 205/ 8,11,13 (concavity</p>	<p>27 * Work on Take Home Test</p>	<p>28 <u>2nd Derv. Test</u> Pg. 205/ 7-17</p>	29 <u>Velocity/ Acc and M.V.T.</u> Pg. 127/ 16, 8, 15, 24 189/ 22-24 *look at intervals as open	30

# October 2006

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1	2 3 4 5 6 Calculator week- Have the students demonstrate the ability to do derivatives, extrema, intersections and graphing in different windows. Also, give them a function and have them do increasing and decreasing without a calculator, then have them graph the function and support their conclusions. They will also have to use their calculators and graph a given derivative and determine where the function would be increasing decreasing and have extrema.					7
8	9 No School	10 Review Sheet	11 Test velocity, linearization, inc/dec Pg. 45 wrksh. (cross off # 7/8)	12 Piecewise Defined Derivatives Worksheet Pg. 42 worksheet Form B ch3 due Mon.	13 Implicit Diff. (with inverses) Pg. 163/ 3, 6, 11, 14-16, 19, 23	14
15	16 Related Rates Pg. 171/ 18 a, b. Anton worksheet Pg. 239-240/ 1b, 2b, 4b, 6, 13	17 Limits at Infinity Pg. 213/ 9, 10, 14-17, 19, 20, 22, 24-26, 55	18 Review For Test Pg. 129/ boxed ones worksheet 239/ worksheet 3b, 8, 13, 16 Pass out Review Packet	19 *Test	20	21
22	23 Integrals & Trig Integrals Pg. 267/ 1-13, 17, 23, 25, 27, 29, 33, 34 trig	24 No Seniors	25 Particular Solutions Pg. 267/ 14-16, 19, 20, 22, 28, 32, 38-41	26	27 Sigma Pg. 279/ 5, 8, 19-22, 24	28
29	30 Limit As A Sum Pg. 279/ 32-34, 36	31 *Quiz* Pg. 374/ Anton worksheet (don't evaluate)				

# November 2006

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 <u>E.T.C. and Area</u> Pg. 298/ 1-10, 31-34, 36-39 (leave answers in terms of $\pi$ or $\sqrt{\quad}$ )	2 AP Conference	3 <u>2nd E.T.C. &amp; Re- view</u> Pg. 299/ 57-62 321/ 1, 3-5, 21-23, 27, 41, 42	4
5	6 <u>Integrate by Pattern</u> Pg 310/ 7-9, 11, 12, 15, 18, 19, 32, 34	7 <u>Integrate by U-Sub</u> Pg 310/ 43-45, 47, 48, 50	8 Worksheet Pg. 379 (5.8) circled ones (don't evaluate)	9 <u>Evaluate w/ U-Sub</u> Pg 310/ 51-56, 61, 63, 65, 67,	10 No school	11
12	13 Review For Test Test form B-- Ch. 5	14 Test Derivative packet (due Tuesday)	15 <u>Trap Rule</u> Pg. 319/ 1, 2, 5, 6, 8 (change #5 to $n=3$ ) and $\int \cos n=2$	16 <u>left/right/midpoint</u> Riemann Sums Sums-- worksheet	17 <u>More Trap Rule &amp; left/right/midpoint</u> Pg. 319/ 13, 17, and J $\cos \times n=2$ 321/ 2, 4, 6, 10, 12, 21 Sums worksheet 2	18
19	20 Work on Packet Quiz 92-1	21 Hand out Thanksgiving packet	22	23	24	25
26	27 <u>Abs Value &amp; Avg. Value</u> Pg. 298-299/ 21-23, 25-30, 40, 47, 48 *T-giving packets due	28 <u>Log Functions and Derivatives</u> Pg. 332/ 13-18, 29-43 odd, 66	29 <u>Log Integrals</u> Pg. 341/ 2-8E, 9, 12, 13, 16, 17, 19, 32-34, 37	30 <u>Inverse Functions</u> Pg. 348/ 7, 8, 12, 18, 29, 32, 36, 37, 39, 45, 50		

# December 2006

Sun	Mon	Tue	Wed	Thu	Fri	Sat
3	4 <u>Integrals w/ e &amp; other bases &amp; interest</u> Pg. 355/ 57-59, 61, 32, 35, 72, 74 364/ 33-38, 46c,f	5 *Quiz <u>Review Work</u> Pg. 400/ 47, 49, 53-59	6 <u>Derivatives--Bases other than e</u> Pg. 363/ 5, 8-10, 12, 13, 17-19, 21-25, 27 (graph 12 and 13)	7 <u>Growth &amp; Decay</u> Pg/ 369/ 15, 17, 19, 20 (just find c), 24	8 <u>Review</u> Pg. 355-356/ 21, 24, 28, 30, 31, 33, 34, 40, 43, 60, 66, 67, 69, 70, 76, 77	9
10	11 <u>Inverse Trig Func.</u> Pg. 379/ 1-8 (no calc), 10,17,31-36 Review sheet- due fri	12 <u>Inverse Trig Deriv.</u> Pg. 379/ 18, 20 22, 23, 25, 39, 44, 46, 48, 49	13 <u>Inverse Trig Integrals</u> Pg. 387/ 1-8 P worksheet	14 *Quiz Inverse trig review worksheet. Pg. 399-400/ 15-18	15 <u>Inverse Trig Integ.</u> Pg. 387/ 10-12, 14, 21,22, 24 (don't eval), 33, 34, 53(ab), 55(a-c), 56 (bc)	16
17	18. <u>Integral Review</u> Pg. 471-472/ 1, 2-12E 13, 15, 17, 25, 26, 30, 31, 34, 36 45,	19 <u>Area Between Two Curves</u> Pg. 409/ 2, 4-6 (no calc)	20. <u>Review for Test</u> Pg. 369/ 16,21 409/ 9, 15, 23 *look over integrals*	21 *Test (Growth/Decay, Area, Integrals)	22 quiz/ candy *vacation packet and formula sheet	23
24	25	26	27	28	29	30
31						

# January 2007

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1 No School	2 collect packet, Exchange formula sheets <u>Trig Integrals</u> Pg. 341/ 28-31, 33-39	3 <u>Volume- Discs</u> Pg.419/ 1, 4, 6, 9, 12, 13a	4 <u>Volume- washers</u> Pg. 419/ 7, 8, 11, 14ab, 15a	5 <u>Revolve around line other than an axis</u> Pg. 419-420/ 14cd, 18, 19, 21, 22, 23	6
7	8 <u>Volume with Cross sections</u> Pg. 420/ 50 (a,b,d,), 51(a,c) Anton Worksheet	9 Area and Volume Review worksheet	10 <u>Diff Equations</u> Barrns (321) work- sheet Pg.1048/ 1-10	11 Review for Test  Review Worksheet Problems 1-10	12 Test Set 7 Barrons Area/ Volume Review (due Tuesday)	13
14	15 No School	16 Midterm Review	17 Midterm Review	18 Midterm Review	19 Midterm Review	20
21	22	23	24	25	26	27
28	29	30 Give Back Midterm & work on Corrections	31 <u>Derivative and Integral Review</u> Worksheet odds (due Friday)			

# February 2007

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 Evaluate / Using Graphs worksheet	2 Derivative and I integral Worksheet -evens	3
4	5 <u>Review Limits &amp; Cont. Functions</u> 37 B/ 1-23 (1-10 no calc)	6. Finish Cont Function Notes Pg. 40 B/ 24-35 and 86—AB 4	7 Deriv Review Pg. 66B/ 6-21 Skip#14	8 Q Limits (Finish Derivative Notes) Pg. 68 B/ 22-58 (17?) Cross off # 52	9 Make sure deriva- tive notes are done Pg. 74, 77, 78, 125, 126 (# of quest 28)	10
11	12 Go over Velocity Graph & Do Piece- wise defines & ABS value Test # 3	13 Study for Test	14 Multiple Choice Limits/ Deriv (17 questions) w/ calculator	15 Part II Test (use 94-4, 94-1, 95-2)	16 Go over stuff from Monday / multiple choice Test Give Vacation Packet	17
18	19 Set 7 / 1-31 circled	20 94-6, 96-2, 96-5 and 31.12 circled	21 Pg. 67, 68, 74 circled	22 Pg. 75, 76, 77 circled	23 Take Home Exam I (Do all problems not crossed off)	24 Finish Take Home Exam
25	26 Pg. 127, 128, 132	27 Pg. 136/ 77, 80, 82 137/ 83-85, 88-90 171 (text book)/ 5 85-6, 88-4, 96-1 (no calc)	28 Pg. 35, 45, 49	1 Pg. 162/ 1-22 circled	2 Pg. 166/ 24-78 circled	

# March 2007

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 Pg. 162/ 1-22 circled	2 Pg. 166/ 24-78 circled	3
4	5 Quiz ?? Correct hwork from Tue 2/27	6 <u>Integral Review</u> (2nd FTC, trap, Vol, and Area) Ch 6 (pg. 212) 34-52 circled (some no calc)	7 Finish Notes Set 6 (pg. 208) 1-27 Circled (some no calc)	8 <u>Motion Along A</u> <u>Straight Line</u> Set 8 & 1997-1 No calc worksheet (explain 12, 14, 15)	9 Pg. 66-67 (ch.6) Pg. 429-432	10
11	12 Quiz Part II Practice Test 5/ 1-19 No calculator	13 Extra I #1,2,3,5	14 Practice Test 5 20-28 & Sample exam I # 1,2	15 Go over hwork and work on corrections	16 Misc mult choice 1- 11	17
18	19 Misc Mult. Choice # 13-27 Sample exam I #3 1992-AB 1	20 Misc Multiple Choice 31-59	21 Test # 4 Worksheet 1-4	22 Mult. Choice Re- view Pg. 89-111 Test # 4- # 5, # 6	23 Mult. Choice Re- view-Finish (no calc) Test #4 worksheet- 7, 8, 11	24
25	26 Integral Worksheet 1-11 and 99-1, 88Exam 1-10 (no calc)	27 Finish 88 Exam- (no calc) Due Friday	28 Integral Test-- Multiple choice	29 Integral Test-- Part II's -3 of them	30 1992-2, 1993-1, 1998-4, 1999-2	31

# April 2007

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 Trap Rule Lesson Given Table	3 Some Part II's 2002 4-6 2003	4 Exam III- with calculator 29, 30, 32-39, 41, 44, 45	5 Give Spring Break Packet	6 No School	7
8	9	10	11	12	13	14
15	16 Exam III Q. 1-28 No Calc	17 Go over homework Study formula sheet	18 M. Choice Test- No calc 2002 1-3, 45 min with calc (collect)	19 Slope Field Lesson Worksheet 1, 2, 3	20 Practice Test 2 1-15 no calc Extra I #6	21
22	23 Practice Test 2 16-25 no calc Extra II #5	24 Practice Test 2 26-40 use calc Extra II #6	25 Exam I 1-20 no calc	26 Exam I 21-37 (21-28 no calc)	27 2005 Form B 1-6 timed	28
29	30 2005 I-3 (45 min ) m. choice with calc 97 timed	<p>**students will present Part II questions while the "audience" will evaluate them using the scoring guidelines I provide them**</p> <p>**students will also be passing in Part II questions for me to grade using the AP scoring guidelines**</p>				



# May 2007

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 2006 Timed 1-3 (45 min, no calc) AP Trig Exam work- sheet	2 2006 Timed 4-6 (45 min with calc)	3 M choice 1998 76-92 with calc 50 min	4 96 M. Choice 15-23 with calc 2006 Form B 1-6	5
6	7 Go over homework 2001 #5	8 Study Formula Sheet, food, etc Prevail sheet	9 <b>AP EXAM</b>	10	11	12
13	<p><b>Students will need to explain problems using proper mathematical terminology. The students will show and explain solutions to homework and class work examples on the overhead projector or whiteboard. In doing this I will be able to evaluate if the students understand the topic or if they need additional help. I will collect the homework that they have put on the board along with all other homework and group assignments. These homework assignments include problems that require written explanations/justifications and/or written explanations of concepts.</b></p>					
20						
27						