## Calculus IA/IB Schedule -- Fall 2012 & Spring 2013

(Note: Textbook References based on Third Custom Edition -- Blue cover)

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MONTH	Dates	Topics	Hass-Wier-Thomas	Dugopolski	Exams & Misc. Notes
Sept	5-7	Functions & their graphs	Ch 1 S 1.1	S 1.5, 1.6	
	10-14	Transforming functions, Composite functions	Ch 1 S 1.2	S 1.7, 1.8 3.1 3.2	
	17-21	Trigonometric functions	Ch 1 S 1.3	Ch 3 except 3.5	
	24-28	<b>-</b>	Ch 1 S 1.3 & 1.5		
Oct	1-5	Rates of change, tangents and introduction to limits	Ch 2 S 2.1, 2.2, 2.4		
	8-12	Infinite limits, Asymptotes (including a review of rational	Ch 2 S 2.5, 2.6	Ch 2 S 2.7	
	0-12	functions), and Continuity; Review for Exam I	0112 0 2.0, 2.0	0112 0 2.1	
	15-19	Secants/tangents & Lim of diff quotient (skip derivatives at a	Ch 3 S 3.1		Exam #1 4PM Tues Oct 16
		point)			(Thru Hass 2.6; Excludes 1.4, 1.6, 2.3)
	22-26	Derivative as a function and Product/Quotient rules (Including	Ch 3 S 3.2, 3.3		
	-	derivatives of polynomials & exponentials)	,		
Nov	29-2	Product & Quotient rules (cont.) & Derivative as rate of	Ch 3 S 3.3, 3.4		
		change			
	5-9	Derivatives of trigonometric functions	Ch 3 S 3.5		
	12-16	Chain rule (including review of composite functions)	Ch 3 S 3.6	S 1.8	
	19-21	Chain rule (cont) & Review for E2 [Thanksgiving break	Ch 3 S 3.6		Exam #2 4PM Tue Nov 20
	13-21	through 27]			(Thru Hass 3.6)
Dec	26-30	Implicit differentiation	Ch 3 S 3.7		Last Quiz/Test Day Dec 3rd
	3-10	Implicit differentiation & Review for final exam	Ch 3 S 3.7		
	12-20	Reading Day Dec 11th; FINAL EXAM WEEK (12th-20th)			FINAL EXAM (Hass thru S 3.7)
	23-31	HOLIDAY BREAK			
Jan	→ 21	INTERSESSION BREAK (ends 22 January)			
Jan	22-25	Inverse functions (including arc trigonometric & logarithmic	Ch 1 S 1.6	Ch 1 S1.9 & 3.5	Use Log handout to supplement
	22-20	functions)	Ch 3 S 3.9 (180 & 181)		
Feb	28-1	Derivatives of arc trigonometric & logarithmic functions (using	Use supplement as		Hass Ch 3 S 3.8 & 3.9 provides
	201	implicit differentiation*)	primary methodology		alternative approach
	4-8	Logarithmic differentiation & Related rates	Ch 3 S 3.8 (175), 3.10		
	11-15	Related rates (cont.) & Linearization & differentials	Ch 3 S 3.10, 3.11		
	40.00				Exam #1 4PM Wed Feb 20
	18-22	Review For Exam E1; Extreme values of functions	Ch 4 S 4.1		(Thru Hass 3.11)
Mar	25-1	Extreme values of functions (cont.) & Mean value theorem	Ch 4 S 4.1 & 4.2		
	4-8	First derivative test, concavity, and curve sketching	Ch 4 S 4.3, 4.4		
	11-15	Spring Recess (ends 18 Mar)			
			Ch 4 S 4.5 & 4.6		
	25-29		Ch 4 S 4.6		
Apr	1-5	Newton's method & Introduction to Hyperbolic functions	Ch 4 S 4.7 Ch 7 S7.3 Ch 4 S 4.8		
	8-12	Antiderivatives			Exam #2 4PM Wed Apr 17
	15-19	Review for Exam 2; Estimating w/finite sums	Ch 5 S 5.1		(Thru Hass S 4.8 plus S7.3)
	22-26	Sigma notation, Limits of finite sums & Definite integrals	Ch 5 S 5.2 & 5.3		Last Quiz/Test Day Apr 24th
Мау	29-1	Definite integrals & Review for Final Exam	Ch 5 S 5.3		
	29-1	Reading Day	Ch 5 S5.3 & Review		
	4	iteauling Day	OILD SOLD & REVIEW		
iviay	3-13	FINAL EXAMS			FINAL (Thru Ch 5 S 5.3 + 7.3)

\* Deriving the derivative formulas for the log and arc trig functions based on the properties of inverse function (pgs 184-186) is optional. Our minimum development of the derivative of the log and arc trig functions will use implicit differentiation (see pg 187 for derivative of log(x)). Hass does not show use of implicit differentiation for arc trig functions so a handout will be provided.

v1.2

8/10/2012