

MA 116 - Fall 2007 Calculus II

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Syllabus :

<u>No.</u>	<u>Date</u>	<u>Lecture Topics</u>	<u>Assigned Exercises</u>	<u>Recitation Exercises</u>	<u>Wk</u>
L1	M Aug 27	8.1, 8.2 (sequences and series)	Hw1 :		
L2	W Aug 29	8.2, 8.3 (series)	8.1: 6, 24	8.1: 5, 23	1
R1	Th, F Aug 30, 31		8.2: 12, 14, 18, 24, 36 8.3: 8, 10, 16, 20	8.2: 11, 13, 17 8.3: 7, 9, 15, 19	
--	M Sep 3	Labor Day	Hw2 :		
L3	W Sep 5	8.4 (convergence tests)	8.4: 4, 8, 12, 20, 22, 26	8.4: 1, 2, 3, 7, 11, 13	2
R2	Th, F Sep 6, 7			8.4: 19, 21, 25, 28	
L4	M Sep 10	8.5 (power series)	Hw3		3
L5	W Sep 12	8.6 (representation of functions as power series)	8.5: 4, 8, 14, 16	8.5: 3, 7, 13, 15	
R3	Th, F Sep 13, 14		8.6: 6, 8, 16, 22, 36(c)(iii)(bonus)	8.6: 5, 7, 13, 15, 21, 35	
L6	M Sep 17	8.7 (Taylor and Maclaurin series I)	Hw4		4
L7	W Sep 19	8.7 (Taylor and Maclaurin series II)	8.7: 2, 6, 10, 12, 14, 20, 34,	8.7: 5, 9, 19, 33, 37, 51	
R4	Th, F Sep 20, 21		40, 50, 54, 56(a)(bonus)		
L8	M Sep 24	9.2, 9.3 (vectors, dot product, projections)	Hw5 :		
L9	W Sep 25	9.4 (cross product), 9.5 (equations of lines and planes I)	9.2: 18, 32	9.2: 31	5
R5	Th, F Sep 26, 27		9.3: 8, 18, 20, 26, 45 9.4: 6, 8, 10, 18, 26, 28(bonus)	9.3: 7, 19, 25 9.4: 1, 2, 3, 7, 9, 17, 25	
L10	M Oct 1	Review session 1 (8.1--8.7)	Hw6		6
Qz1	T Oct 3	Quiz 1: sections 8.1-8.7 . Quiz 1: TBA	9.5: 2, 4, 6, 10, 14, 18, 22, 26, 34, 42, 54(bonus)	9.5: 5, 7, 13, 17, 25, 33, 41	
L11	W Oct 3	9.5 (equations of lines and planes II)			
R6	Th, F Oct 4, 5				
--	M Oct 8	Fall recess	Hw7 :		7
L12	Tu Oct 9	10.1, 10.2 (vector functions and space curves)	10.1: 14, 17-22, 38	10.1: 37	
L13	W Oct 10	10.3, 10.4 (arc length and motion)	10.2: 18, 20, 25, 28, 36 10.3: 2, 4, 12(b)	10.2: 17, 19, 27, 35 10.3: 1, 7, 11(b)	
R7	Th, F Oct 11, 12		10.4: 10, 14	10.4: 13	
L14	M Oct 15	9.6, 11.1, 11.2 (functions of several variables)	Hw8 :		8
L15	W Oct 17	11.3, 11.4 (differentials)	9.6: 8, 20, 32, 34	9.6: 19	
R8	Th, F Oct 18, 19		11.1: 6, 10, 16, 31-36 11.2: 6, 8, 16 11.3: 6, 8, 14, 22, 38, 48, 50	11.1: 15; 11.2: 5, 7 11.3: 13, 15, 37, 47	
L16	M Oct 22	11.5 (chain rule, implicit differentiation)	Hw9 :		9
L17	W Oct 24	11.6 (directional derivatives and gradients)	11.4: 4, 29, 36, 38	11.4: 3, 27, 37	
R9	Th, F Oct 25, 26		11.5: 4, 8, 10, 20, 24, 28, 44 (bonus)	11.5: 19, 23	
L18	M Oct 29	Review session II	Hw10 :		10
Qz2	T Oct 30	Quiz 2: sections 9.2-9.5, 10.1-10.4	11.6: 6, 10, 14, 16, 22, 36 11.7: 2, 3, 4, 8, 16, 26, 28, 36, 40, 48, 50 (bonus)	11.6: 9, 21, 35 11.7: 7, 15, 25, 35	
L19	W Oct 31	11.7 (extremum of functions of several variables)			
R10	Th, F Nov 1, 2				
L20	M Nov 5	11.8 (Lagrange multipliers)	Hw11 :		11
L21	W Nov 7	12.1, 12.2 (double integrals over rectangles)	11.8: 4, 6, 10, 12, 18	11.8: 5, 9, 19, 23, 39	
R11	Th, F Nov 8, 9		11.8: 22, 30, 40, 44 (bonus)		
L22	M Nov 12	12.2 (double integrals)	Hw12 :		12
L23	W Nov 14	12.3 (double integrals in general regions I)	12.1: 8, 12	12.2: 23	
R12	Th, F Nov 15, 16		12.2: 4, 14, 22, 26 12.3: 8, 10, 12, 24, 26	12.3: 7, 19 12.4: 7, 13, 23	

L24	M	Nov 19	H.1, 12.4 (double integrals in polar coordinates)	Hw13 :		13
--	W	Nov 21	Thanksgiving recess	12.3: 34, 36, 38, 40, 42, 50		
--	Th, F	Nov 22, 23	Thanksgiving recess	H1: 18, 28, 42	no recitation classes	
				12.4: 8, 10, 14, 18, 26, 32(bonus)		
L25	M	Nov 26	Review session III	Hw14 (due 12/7-8) :		14
Qz3	T	Nov 27	Quiz 3: sections 11.1-11.8, 12.1-12.3 .	12.3: 45, 46	H1: 9, 17, 25, 41	
			Quiz 3: TBA	12.4: 12, 20, 28, 30	12.4: 11, 15, 25	
L26	W	Nov 28	12.4 (double integrals in general regions II)	12.5: 2, 4, 14		
R13	Th, F	Nov 29, 30				
L27	M	Dec 3	12.5 (applications of double integrals)			15
L28	W	Dec 5	Review		12.5: 1, 3, 7, 11, 13	
R14	Th, F	Dec 6, 7				
			Final Exam.			
Rev			Review: TBA			
Fin			Final: Cumulative Exam, TBA			

Last update: August 28, 2007

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