

UMTYMP Calculus III 2004

Syllabus

Text: Calculus: Concepts and Contexts - Combined Edition Stewart

Note: Assignments listed are basic assignments. Additional problems may be distributed in class.

Professional problems are marked with *.

Class	Day	Date	Section	Title	HW Due
1	Wednesday	09/08/2004		<i>Course Overview</i>	
			12.1	<i>Double Integrals over Rectangles</i> HW: 1, 3, 5, 6, 9, 13, 15, 16*	Mon 9/13
			12.2	<i>Iterated Integrals (start)</i> HW: 2, 5, 8, 9, 10, 13, 14, 15, 19, 22*, 23, 30, 32b	Wed 9/15
	Monday	09/13/2004		Study Session 1	
2	Wednesday	09/15/2004	12.2	<i>Iterated Integrals (finish)</i>	
			12.3	<i>Double Integrals over General Regions</i> HW: 4, 11, 16, 20, 29, 30, 31, 34, 38, 40, 42*, 44, 46	Wed 9/22
	Monday	09/20/2004		Study Session 2	
3	Wednesday	09/22/2004	12.9	<i>Change of Variables in Multiple Integrals - Double Integrals</i> HW: 2, 5, 6, 8, 9, 10, 11, 14*, 15, 19, 22, 24	Wed 9/29
4	Monday	09/27/2004	12.4	<i>Double Integrals in Polar Coordinates</i> HW: 1, 3, 4, 6, 10, 11, 13, 14*, 15, 19, 23, 24, 28, 30	Mon 10/4
			10.5	<i>Parametric Surfaces (start)</i> HW: 1, 2, 3, 4, 11, 12, 13, 14	
5	Wednesday	09/29/2004	10.5	<i>Parametric Surfaces (finish)</i> HW: 16, 19, 21, 27, 29a	Wed 10/6
			12.6	<i>Surface Area</i> HW: 2, 5, 7, 8, 18ab, 21, 23*, 24, 26	
	Monday	10/04/2004		Exam Review Day	
	Wednesday	10/06/2004		Exam 1 (Through 10.5)	
			12.7	<i>Triple Integrals (start)</i>	
	Monday	10/11/2004		Study Session 3	
6	Wednesday	10/13/2004	12.7	<i>Triple Integrals</i> HW: 2, 5, 8, 10, 13, 16*, 23, 24, 26, 30 (just $dx dz dy$, $dx dy dz$, and $dz dy dx$), 35, 45	Wed 10/20
	Monday	10/18/2004		Study Session 4	
7	Wednesday	10/20/2004	12.8	<i>Triple Integrals in Cylindrical & Spherical Coordinates</i> HW: 1, 4, 6, 8, 14a, 15, 18, 19, 26*, 28a, 29, 32	MON 10/25
			12.9	<i>Change of Variables in Multiple Integrals - Triple Integrals</i> HW: 17 + additional problems given in class. <i>Extra Credit</i>	Wed 10/27

Class	Day	Date	Section	Title	HW Due
			12.5	1, 5, 6, 9, 10	
			12.8	14b	
8	Monday	10/25/2004	13.1	<i>Vector Fields</i> HW: 3, 4, 6, 7, 8, 11-14, 15-18, 22, 23, 25, 26, (29-32)*, 33	Mon 11/1
9	Wednesday	10/27/2004	13.2	<i>Line Integrals</i> HW: 1, 3, 5, 6, 8, 9, 11, 13, 14*, 17, 22a, 24a, 25, 31, 33, 34, 37	Wed 11/3
	Monday	11/01/2004		Exam Review Day	
	Wednesday	11/03/2004		Exam 2 (Through 13.2)	
			13.3	<i>The Fundamental Theorem of Line Integrals</i> (start)	
	Monday	11/08/2004		Study Session 5	
10	Wednesday	11/10/2004	13.3	<i>The Fundamental Theorem of Line Integrals</i> HW: 1, 2, 4, 8, 10, 11, 12, 15, 16, 21, 23, 26*, 27, 29, 30, 31, 32	Wed 11/17
11	Monday	11/15/2004	13.4	<i>Green's Theorem</i> HW: 4, 8, 11, 14, 17, 20, 21a*, 27	Mon 11/22
12	Wednesday	11/17/2004	13.5	<i>Curl and Divergence (Part I)</i> HW: 1, 2, 4, 7, 8, 9, 10abdfhl, 11, 13, 14, 19*, 20	Wed 11/24
13	Monday	11/22/2004	13.5	<i>Curl and Divergence (Part II)</i> HW: 18, 22, 23, 24, 29*, 33	Mon 11/29
			13.6	<i>Surface Integrals (Part I)</i> HW: 4, 6, 7, 12, 13, 16, 18	
No Class, Wed 11/24/04 - Thanksgiving Break					
14	Monday	11/29/2004	13.6	<i>Surface Integrals (Part II)</i> HW: 19, 22*, 25, 27, 31, 42	Mon 12/6
15	Wednesday	12/01/2004	13.7	<i>Stokes' Theorem</i> HW: 1, 2, 3, 5, 8, 9, 11ac, (12ac(no graph))* , 16, 19	Mon 12/6
16	Monday	12/06/2004	13.8	<i>The Divergence Theorem</i> HW: 1, 2, 8, 10, 11, 17, 19, 20*, 21, 22	Wed 12/8
	Tuesday	12/07/2004		Study Session / Final Exam Review? (TBA)	
	Wednesday	12/08/2003		Course Summary Exam Review	
	Thursday	12/09/2004		Exam 3 (Chapter 13) Enrichment/Wrapup Talk	