

UMTYMP Calculus III 2003

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 D ₁
1	Wednesday	9/3/03		<i>Course Overview</i>	
			12.1	<i>Double Integrals over Rectangles</i> HW: 1, 3, 5, 6, 9, 13, 15, 16*	MON 9/8
			12.2	<i>Iterated Integrals (start)</i> HW: 2, 5, 8, 9, 10, 13, 14, 15, 19, 22*, 23, 30, 32b	Wed 9/10
2	Monday	9/8/03	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	MON 9/15
3	Wednesday	9/10/03	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 9/17
	Monday	9/15/03		Study Session 1	
4	Wednesday	9/17/03	12.4	<i>Double Integrals in Polar Coordinates</i> HW: 1, 3, 4, 6, 10, 11, 13, 14*, 15, 19, 23, 24, 28, 30	Wed 9/24
			10.5	<i>Parametric Surfaces (start)</i> HW: 1, 2, 4, 11, 12, 13, 14	
	Monday	9/22/03		Study Session 2 (Quiz Review)	
5	Wednesday	9/24/03		Quiz 1 (12.1-12.3, 12.9)	
			10.5	<i>Parametric Surfaces (finish)</i> HW: 16, 19, 21*, 27, 29a	MON 9/29
			12.6	<i>Surface Area</i> HW: 2, 5, 7, 8, 18ab, 21, 23*, 24, 26	Wed 10/1
6	Monday	9/29/03	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	MON 10/6
7	Wednesday	10/1/03	12.8	<i>Triple Integrals in Cylindrical & Spherical Coordinates</i> HW: 1, 4, 6, 8, 14a, 15, 18, 19, 26*, 28a, 29, 32	Wed 10/8
			12.9	<i>Change of Variables in Multiple Integrals - Triple Integrals</i> HW: 17 <i>Extra Credit</i>	
			12.5	1, 5, 6, 9, 10	
			12.8	14b	
	Monday	10/6/03		Study Session 3	
8	Wednesday	10/8/03	13.1	<i>Vector Fields</i> HW: 3, 4, 6, 7, 8, 11-14, 15-18, 22, 23, 25, 26, (29-32)*, 33 <i>Exam Review</i>	Wed 10/15
	Monday	10/13/03		Exam Review Day (10.5, 12.1-12.5, 12.6-12.9)	

9	Wednesday	10/15/03	Exam I (Sections 10.5, 12.1 - 12.5, 12.6 - 12.9) 13.2 <i>Line Integrals(start)</i>	
10	Monday	10/20/03	13.2 <i>Line Integrals (finish)</i> HW: 1, 3, 5, 6, 8, 9, 11, 13, 14*, 17, 22a, 24a, 25, 31, 33, 34, 37	MON 10/27
11	Wednesday	10/22/03	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	FRI 10/31
	Monday	10/27/03	Study Session 4	
12	Wednesday	10/29/03	13.4 <i>Green's Theorem</i> HW: 4, 8, 11, 14, 17, 20, 21a*, 27	Wed 11/5
	Monday	11/3/03	Study Session 5	
13	Wednesday	11/5/03	13.5 <i>Curl and Divergence (Part I)</i> HW: 1, 2, 4, 7, 8, 9, 10abdfhl, 11, 13, 14, 19*, 20	Wed 11/12
	Monday	11/10/03	Study Session 6	
14	Wednesday	11/12/03	Quiz 2 (13.1-13.4) 13.5 <i>Curl and Divergence (Part II)</i> HW: 18, 22, 23, 24, 29*, 33 13.6 <i>Surface Integrals (Part I)</i> HW: 4, 6, 7, 12, 13, 16, 18	Wed 11/19
	Monday	11/17/03	Study Session 7	
15	Wednesday	11/19/03	13.6 <i>Surface Integrals (Part II)</i> HW: 19, 22*, 25, 27, 31, 42	TUES 11/25
	Monday	11/24/03	Study Session 8	
16	<u>TUESDAY</u>	11/25/03	13.7 <i>Stokes' Theorem</i> HW: 1, 2, 3, 5, 8, 9, 11ac, (12ac(no graph))* , 16, 19 <i>No Class, Wed 11/27/03 - Thanksgiving</i>	Wed 12/3
17	Wednesday	12/3/03	13.8 <i>The Divergence Theorem</i> HW: 1, 2, 8, 10, 11, 17, 19, 20*, 21, 22	MON 12/8
18	Monday	12/8/03	<i>Course Summary</i> <i>Exam Review</i>	
	Tuesday	12/9/03	<i>Exam Review Day 13.1-13.8 (Return HW from Sec 13.8)</i>	
19	Wednesday	12/10/03	Exam II (Chapter 13) (75-90 minutes) <i>Enrichment Talk</i>	