

Math 2443-005 – Calculus IV – Fall 2002

Class	Date	Day	Topic	Homework
1	Aug 27	Tue	15.1 Functions of several variables	15.1 # 2,6,16,23,26,29,31-32,45,58
2	Aug 29	Thu	15.2 Limits and continuity	15.2 # 6,8,11-13,17,18,29,35,36
3	Sep 3	Tue	15.3 Partial derivatives	15.3 # 1,6,18-22,29,36,40,52,58, 64,66(b)(d)(f),67,68(a)(d)
4	Sep 5	Thu	15.4 Tangent plane and differentials	15.4 # 5,14,24,27,30,34,37
5	Sep 10	Tue	15.5 The Chain Rule	15.5 # 5,9,14,18,20,27,37,41,48
6	Sep 12	Thu	15.6 The gradient	15.6 # 4,9,14,17,22,27,32,39,42,46
7	Sep 17	Tue	16.1 Riemann sums 16.2 Iterated integrals	16.1 # 5,11-14 16.2 # 9,12,16,19,27,29
8	Sep 19	Thu	continue	
	Sep 24*	Tue	Exam I	
9	Sep 26	Thu	16.3 Double integrals 16.4 Polar coordinates	16.3 # 6,12,13,15,20,24,34,35,40 16.4 # 9,12,15,20,28
10	Oct 1	Tue	16.5 Applications 16.6 Surface area	16.5 # 6,7,11,12 16.6 # 3,7,10
11	Oct 3	Thu	continue	
12	Oct 8	Tue	16.7 Triple integrals	16.7 # 5,7,15,17,25,28,36
13	Oct 10	Thu	16.8 Spherical coordinates	16.8 # 1,4,6,9,16,18,21,33,35
14	Oct 15	Tue	17.1 Vector fields	17.1 # 1,6,11-14,24,26,29-32
15	Oct 17	Thu	17.2 Line integrals	17.2 # 3,6,7,17,18,19,21,32
16	Oct 22	Tue	continue	
	Oct 24*	Thu	Exam II	
17	Oct 29	Tue	17.3 Fund. thm. for line integrals	17.3 # 1,2,5,6,12,18,19
18	Oct 31	Thu	17.4 Green's Theorem	17.4 # 3,9,11,15,27
	Nov 1	Fri	Last day to withdraw without permission of Dean	
19	Nov 5	Tue	17.5 Curl and divergence	17.5 # 4,7,9-12,15,16,21,22
20	Nov 7	Thu	17.6 Parameterized surfaces	17.6 # 1-4,17,18,21,22,30,31,33,34
21	Nov 12	Tue	17.7 Surface integrals	17.7 # 5,6,13,14,19,22,23,24
22	Nov 14	Thu	continue	
	Nov 19*	Tue	Exam III	
23	Nov 21	Thu	15.7 Extreme values	15.7 # 3-6,30,32,48,49
	Nov 27- Dec 1		Thanksgiving Break	
24	Dec 3	Tue	15.8 Lagrange multipliers	15.8 # 5,14,23,36,37
25	Dec 5	Thu	17.8 Stokes' Theorem	17.8 # 4,5,8,14,15
26	Dec 10	Tue	17.9 The Divergence Theorem	17.9 # 1,2,5,6,8,9,13,15
27	Dec 12	Thu	continue	
	Dec 18	Wed	Final Exam (1:30-3:30 p. m.)	

* Homework notebooks due.