

Math 2443-006 – Calculus IV – Fall 2001

Class	Date	Day	Topic	Homework
1	Aug 21	Tue	15.1 Functions of several variables	15.1 # 1,2,9-12,18,19,25-27,29,30,32,51-56
2	Aug 23	Thu	15.2 Limits and continuity	15.2 # 1,5-12,18-20,23,24,29,32
3	Aug 28	Tue	15.3 Partial derivatives	15.3 # 1,6,12-22,29-34,39,40,43,44,57-59, 64,66,68,75,78,79
4	Aug 30	Thu	15.4 Tangent plane and differentials	15.4 # 1,4,5,15,17,26,27,31-35
5	Sep 4	Tue	15.5 Chain Rule	15.5 # 3,4,7,9,13,19,34,37,41,45
6	Sep 6	Thu	15.6 Directional derivatives	15.6 # 1,4,6,8,13,17,20,22,23,28,29,37,42
7	Sep 11*	Tue	15.7 Maximum and minimum values	15.7 # 3,4,7,11,29,33,48,49
8	Sep 13	Fri	15.8 Lagrange multipliers	15.8 # 5,14,23,36,37
9	Sep 18	Tue	continue	
	Sep 20	Thu	Exam I	
10	Sep 25	Tue	16.1 Riemann sums	16.1 # 5,11-14
11	Sep 27	Thu	16.2 Iterated integrals	16.2 # 5,12,15,19,21-23,29
12	Oct 2	Tue	16.3 Double integrals	16.3 # 3,9,11,17,18,25,28,33-35,39,40
13	Oct 4	Thu	16.4 Polar coordinates	16.4 # 1-8,10,15,16,31
14	Oct 9	Tue	16.5 Applications 16.6 Surface Area	16.5 # 6,7,11,12 16.6 # 3,7,10
15	Oct 11*	Thu	16.7 Triple integrals	16.7 # 5,7,11,15,17,25,27,31,36
16	Oct 16	Tue	16.8 Cylindrical and spherical coords	16.8 # 1,3,5,6,9,13,14,17,19,33,35
17	Oct 18	Thu	16.9 The Jacobian	
	Oct 23	Tue	Exam II	
18	Oct 25	Thu	17.1 Vector fields	17.1 # 1-3,5-8,11-18,21,23,25,26,29-32
	Oct 26	Fri	Last day to withdraw without permission of Dean	
19	Oct 30	Tue	17.2 Line integrals	17.2 # 1,3,4,7,13,14,17-21,31,32
20	Nov 1	Thu	17.3 Fund Thm For Line Integrals	17.3 # 1-5,11-13,15,16,19,20,23,29-33
21	Nov 6	Tue	17.4 Green's Theorem	17.4 # 2,7,11-13,15,16
22	Nov 8	Thu	17.5 Curl and divergence	17.5 # 1,3,9-14,17,19,20,30-31
23	Nov 13	Tue	17.6 Parameterized surfaces	17.6 # 17,18,21-23,29,31,33,36,39
24	Nov 15	Thu	17.7 Surface integrals	17.7 # 5,7,8,13,17-19,21,23,35
25	Nov 20	Tue	continue	
	Nov 21- Nov 25		Thanksgiving Break	
	Nov 27	Tue	Exam III	
26	Nov 29*	Thu	17.8 Stokes' Theorem	17.8 # 3,5-9,13,14
27	Dec 4	Tue	17.9 The Divergence Theorem	17.9 # 1,2,4,6,7,9,11,13
28	Dec 6	Thu	continue	
	Dec 13	Thu	Final Exam (1:30-3:30 p. m.)	

* Homework notebooks due.