

Math 2443-003 – Calculus and Analytic Geometry IV – Fall 2003

Tentative Class Schedule and Homework Assignments

Class	Date	Day	Topic	Homework
1	Aug 25	Mon	15.1 Functions of several variables	15.1 # 1,2,9-12,18,19,25-27,29,30,32,51-56
2	Aug 27	Wed	15.2 Limits and continuity	15.2 # 1,5-12,18-20,23,24,29,32
3	Aug 29	Fri	continue	
4	Sep 3	Wed	15.3 Partial derivatives	15.3 # 1,6,12-22,29-34,39,40,43,44,57-59,64,66,68,75,78,79
5	Sep 5	Fri	continue	
6	Sep 8	Mon	15.4 Tangent plane and differentials	15.4 # 1,4,5,15,17,26,27,31-35
7	Sep 10	Wed	15.5 Chain rule	15.5 # 3,4,7,9,13,19,34,37,41,45
8	Sep 12	Fri	15.6 Directional derivatives	15.6 # 1,4,6,8,13,17,20,22,23,28,29,37,42
9	Sep 15	Mon	continue	
10	Sep 17	Wed	15.7 Maximum and minimum values	15.7 # 3,4,7,11,29,33,48,49
11	Sep 19	Fri	15.8 Lagrange multipliers	15.8 # 5,14,23,36,37
12	Sep 22	Mon	continue	
	Sep 24	Wed	Exam I	
13	Sep 26	Fri	16.1 Riemann sums	16.1 # 5,11-14
14	Sep 29	Mon	16.2 Iterated integrals	16.2 # 5,12,15,19,21-23,29
15	Oct 1	Wed	16.3 Double integrals	16.3 # 3,9,11,17,18,25,28,33-35,39,40
16	Oct 3	Fri	16.4 Polar coordinates	16.4 # 1-8,10,15,16,31
17	Oct 6	Mon	continue	
18	Oct 8	Wed	16.5 Applications	16.5 # 6,7,11,12
19	Oct 13	Mon	16.6 Surface area	16.6 # 3,7,10
20	Oct 15	Wed	16.7 Triple integrals	16.7 # 5,7,11,15,17,25,27,31,36
21	Oct 17	Fri	continue	
22	Oct 20	Mon	16.8 Cylindrical and spherical coordinates	16.8 # 1,3,5,6,9,13,14,17,19,33,35
23	Oct 22	Wed	16.9 The Jacobian	
24	Oct 24	Fri	continue	
	Oct 27	Mon	Exam II	
25	Oct 29	Wed	17.1 Vector fields	17.1 # 1-3,5-8,11-18,21,23,25,26,29-32
26	Oct 31	Fri	17.2 Line integrals	17.2 # 1,3,4,7,13,14,17-21,31,32
	Oct 31	Fri	Last day to withdraw without permission of Dean	(see academic calendar)
27	Nov 3	Mon	continue	
28	Nov 5	Wed	17.3 Fund Thm for line integrals	17.3 # 1-5,11-13,15,16,19,20,23,29-33
29	Nov 7	Fri	continue	
30	Nov 10	Mon	17.4 Green's Theorem	17.4 # 2,7,11-13,15,16
31	Nov 12	Wed	continue	
32	Nov 14	Fri	17.5 Curl and divergence	17.5 # 1,3,9-14,17,19,20,30-31
33	Nov 17	Mon	continue	
34	Nov 19	Wed	17.6 Parametrized surfaces	17.6 # 17,18,21-23,29,31,33,36,39
35	Nov 21	Fri	17.7 Surface integrals	17.7 # 5,7,8,13,17-19,21,23,35
36	Nov 24	Mon	continue	
37	Dec 1	Mon	17.8 Stokes's Theorem	17.8 # 3,5-9,13,14
38	Dec 3	Wed	continue	
	Dec 5	Fri	Exam III	
39	Dec 8	Mon	17.9 The Divergence Theorem	17.9 # 1,2,4,6,7,9,11,13
40	Dec 10	Wed	continue	
41	Dec 12	Fri	review	
	Dec 17	Wed	Final Exam (8:00–10:00 am)	