

**Math 2443-003 – Calculus IV – Spring 2003**

Class	Date	Day	Topic	Homework
1	Jan 14	Tue	15.1 Functions of several variables	15.1 # 2,6,16,23,26,29,31-32,45,58
2	Jan 16	Thu	15.2 Limits and continuity	15.2 # 6,8,11-13,17,18,29,35,36
3	Jan 21	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	Jan 23	Thu	15.4 Tangent plane and differentials	15.4 # 5,14,24,27,30,34,37
5	Jan 28	Tue	15.5 The Chain Rule	15.5 # 5,9,14,18,20,27,37,41,48
6	Jan 30	Thu	15.6 The gradient	15.6 # 4,9,14,17,22,27,32,39,42,46
7	Feb 4	Tue	continue	
	Feb 6*	Thu	<b>Exam I</b>	
8	Feb 11	Tue	16.1 Riemann sums 16.2 Iterated integrals	16.1 # 5,8,9,11-14 16.2 # 9,12,16,19,27,29
9	Feb 13	Thu	16.3 Double integrals 16.4 Polar coordinates	16.3 # 6,12,13,15,20,24,34,35,40 16.4 # 9,12,15,20,28,29
10	Feb 18	Tue	16.5 Applications 16.6 Surface area	16.5 # 6,7,11,12 16.6 # 3,7,10
11	Feb 20	Thu	continue	
12	Feb 25	Tue	16.7 Triple integrals	16.7 # 5,7,15,17,22(a),23,25,28,36
13	Feb 27	Thu	16.8 Spherical coordinates	16.8 # 3,4,6,9,13,16,18,21,35,36
14	Mar 4	Tue	continue	
	Mar 6*	Thu	<b>Exam II</b>	
15	Mar 11	Tue	17.1 Vector fields	17.1 # 1,5,6,11-14,23,24,26,29-32
16	Mar 13	Thu	17.2 Line integrals	17.2 # 2,3,6,7,17-19,21,31,32
	Mar 15- Mar 23	Spring Break		
17	Mar 25	Tue	17.3 Fund. thm. for line integrals	17.3 # 1,2,5,6,12,18,19,23,27
18	Mar 27	Thu	17.4 Green's Theorem	17.4 # 2,3,9,11,12,15,27
	Mar 28	Fri	<b>Last day to withdraw without permission of Dean</b>	
19	Apr 1	Tue	17.5 Curl and divergence	17.5 # 1,4,7,9-12,15,16,21,22
20	Apr 3	Thu	17.6 Parameterized surfaces	17.6 # 1-4,17-22,30,31,33,34
21	Apr 8	Tue	continue	
	Apr 10*	Thu	<b>Exam III</b>	
22	Apr 15	Tue	17.7 Surface integrals	17.7 # 5-7,11,13,14,19,21-24,26
23	Apr 17	Thu	continue	
24	Apr 22	Tue	17.8 Stokes' Theorem	17.8 # 4,5,8-10,14,15
25	Apr 24	Thu	17.9 The Divergence Theorem	17.9 # 1-3,5,6,8,9,13,15
26	Apr 29	Tue	15.7 Extreme values	15.7 # 3-6,30-32,48,49
27	May 1	Thu	continue	
	May 7	Wed	<b>Final Exam</b> (8:00-10:15 a. m.)	

\* Homework notebooks due.