Multivariable Calculus							
Math	113	\mathbf{A}	& B	, Fall	2012,	Tentative	$\mathbf{schedule}$

Day Number	Date of Lecture	Reading in Text				
1	8/29	12.1, 12.2: Three Dimension Coordinates and				
		Vectors				
2	8/31	12.3: Dot Products				
3	9/3	12.3: Dot Products				
4	9/5	12.4: Cross Products; Problems				
5	9/7	12.4: Cross Products (cont'd);				
6	9/10	12.5: Equations of Lines and Planes				
7	9/12	Problems; 12.5 (cont'd)				
8	9/14	12.5 (cont'd), problems				
9	9/17	13.1, 13.2 : Vector Functions, Space Curves;				
		Derivatives of Vector Functions				
10	9/19	Problems; 13.3, 13.4: Arc Length; Motion in				
		Space				
11	9/21	13.3, 13.4 (cont'd)				
12	9/24	14.1, 14.2: Functions of Several Variables; Limits				
		and Continuity				
13	9/26	Problems; 14.3 (up to partial differential				
		equations, p. 932): Partial Derivatives				
14	9/28	14.3 (cont'd)				
15	10/1	14.4: Tangent Planes and Linear Approximations				
16	10/3	Midterm review				
17	10/5	First midterm				
	10/8	Midterm recess				
18	10/10	14.5 The Chain Rule				
19	10/12	14.6: The Directional Derivative and Gradient				
20	10/15	14.6 (cont'd)				
21	10/17	Problems; 14.7: Maxima and Minima				
22	10/19	$14.7 \; (\text{cont'd})$				
23	10/22	14.7 (con't)				
24	10/24	Problems; 14.7 (cont'd)				
25	10/26	14.7 (cont'd), 14.8 [*] : Lagrange multipliers				
26	10/29	14.8^{*} (cont'd)				
27	10/31	Problems; 15.1: Double Integrals over Rectangles				
28	11/2	15.2: Iterated Integrals				
29	11/5	15.2 (cont'd)				
30	11/7	Midterm review				
31	11/9	Second midterm				
32	11/12	15.3 Double Integrals over General Regions				
33	11/14	Problems; 15.3: (cont'd)				
34	11/16	15.4: Double Integrals in Polar Coordinates				
Continued on next page						
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Day Number Date of Lecture Reading in Text 15.5: Applications of Double Integrals 3511/1911/21-11/25 Thanksgiving recess 11/2615.7: Triple Integrals 36 11/28Problems; 15.8: Triple Integrals in Cylindrical 37 Coordinates 11/3015.8 (cont'd)38 15.9: Triple Integrals in Spherical Coordinates; 3912/312/515.10*: Change of Variables in Multiple Integrals 40 41 12/7Final review

Table 1 – continued from previous page

Note: The sections marked with an "*" are optional and we might skip them if we fall behind.