Course Schedule and Assignments

Week of	Section	Торіс
	12.1	Functions of Two Variables
1: Jan 14 th	12.2	Graphs of Functions of Two Variables
	12.3	. Contour Diagrams
		NO CLASS – MLK DAY HOLIDAY
2: Jan 21 st	12.4	Linear Functions
	12.5	Functions of Three Variables
	13.3 – 13.4	Review of Dot and Cross Products
3: Jan 28 th		NO CLASS – SNOW DAY
	14.1	The Partial Derivative
4: Feb 4 th	14.1 14.2	Computing Partial Derivatives
		NO CLASS – EVENING EXAM MAKEUP DAY
		NO CLASS – WINTER CARNIVAL BREAK
5: Feb 11 th	14.3	Local Linearity and the Differential
	14.4	Gradients and Directional Derivatives in a Plane
	14.5	Gradients and Directional Derivatives in Space
6: Feb 18 th	14.6	The Chain Rule
	14.6	Second Order Partial Derivatives
	15.1	Local Extrema
		Review
7: Feb 25 th		EXAM I – Chapters 12, 13, 14 and 15 (25 Feb. 6pm)
7. 105 20	16.1	Integrals of Functions of Two Variables
	16.2	Iterated Integrals
	16.3	Triple Integrals
8: Mar 3 rd	16.4	Double Integrals in Polar Coordinates
	1011	NO CLASS – EVENING EXAM MAKEUP DAY
		Spring Break : Mar 10 th – Mar 14 th
9: Mar 17 th	16.5	Integrals in Cylindrical and Spherical Coordinates
	16	Chapter 16
	17.1	Parameterized Curves
10: Mar 24 th	17.2	Motion, Velocity and Acceleration
	17.3	Vector Fields
	18.1	The Idea of a Line Integral
11: Mar 31 st	18.2	Computing Line Integrals over Parameterized Curves
	18.3	Gradient Fields and Path-Independent Fields
	18.4	Path-Dependent Vector Fields and Green's Theorem
12: Apr 7 th		Chapter 18
•	19.1	The Idea of a Flux Integral
	19.2	Flux Integrals: Graphs, Cylinders and Spheres
		Review
13: Apr 14 th		EXAM II - Chapters 16, 17, 18, 19 (14 Apr 6pm)
·	20.1	The Divergence of a Vector Field
	20.2	The Divergence Theorem
14: Apr 21 st	20.3	The Curl of a Vector Field
	20.4	Stokes' Theorem
•		Review
		Final Exams : Apr 28 th – May 2 nd
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Homework Problem List

Section	Problems
12.1	1, 2, 3, 6, 8, 9, 11, 17, 19, 23, 27, 31
12.2	1 – 11, 16, 19
12.3	1, 4, 7, 12, 13, 17, 20, 28
12.4	3, 4, 6, 11, 12, 13, 14, 17, 21
12.5	1, 3, 5, 7, 9, 13, 15-18, 21, 23
13.3	2, 3, 8, 11, 13, 15, 17, 21, 23, 25, 29
13.4	3, 5, 7, 11, 12, 13, 15, 21, 23
14.1	1, 5, 7, 9, 17, 19
14.2	1, 3, 5, 9, 11, 15, 19, 23 , 27, 29, 33
14.3	1, 3, 7, 9, 11, 13, 18, 25
14.4	1, 3, 5, 9, 17, 23, 31, 37, 65
14.5	1, 2, 9, 11, 13, 17, 19, 25, 33
14.6	1, 2, 3, 7, 9, 11, 13, 15, 19
14.7	1, 5, 7, 9, 11, 15, 16, 21, 23, 27, 31
15.1	1, 5, 7, 9, 13, 21
15.3	2, 10
16.1	1, 3, 4, 9, 13, 15, 21, 27
16.2	1, 4 ,5, 7, 11, 13, 17, 18, 23, 26, 29, 35, 36, 39, 41
16.3	1, 5-23 odd, 31 – 37 odd
16.4	1, 4, 8, 10, 14, 15, 17, 20, 23
16.5	1, 5, 7, 9, 10, 11, 12, 13, 15, 21, 27, 33, 37
17.1	3, 7, 11, 12, 13-23 odd, 27, 31, 32, 36, 47, 54
17.2	2, 3, 5, 8, 9, 12, 14, 23, 30, 33
17.3	1 – 8, 13, 19, 25
18.1	1 – 8, 10, 12, 15, 21, 25
18.2	3, 4, 6, 9, 11, 13, 15
18.3	2 – 4, 7 – 13, 21, 29
18.4	1, 3-7, 9-11, 17, 19
19.1	1 – 13 odd, 17, 21, 25
19.2	1, 3, 9, 13, 15
20.1	1 – 9 odd, 13, 21
20.2	2, 3, 5, 14, 23, 29
20.3	1 – 4, 7, 9, 11, 14, 17, 21
20.4	1, 3, 7, 11, 17, 29