Math 2110 = Math 210=Calc 3 Multivariable Calculus

Text: *Multivariable Calculus 8th edition* by James Stewart (Black Stewart)

Section	Topic	Exercises	Do Before
12.1	3 dimensions	7,11,15,17,19,22,25,34,37	8/25
12.2	Vectors	9,13,15,19,21,25,31,34	8/27
12.3	Dot Product	3,5,7,15,19,23,25,39,41,43,45,51	8/29
	No Class Labor Day Monday September 1st		
12.4	Cross Product	1,5,7,17,19,27,31,35,39,47	9/03
12.5	Lines & Planes	5,7,13,19,26,31,34,45,51,63	9/05
13.1	Space Curves	9,13,27,32	9/08}
13.2	Their derivatives	9,15,19,25,27	9/08}
13.3	Arclength&Curvature	3,5,13,17,18,21,23,28,31	+9/12
13.4	Components of Accel	9,11,22,37,39,41	+9/17
14.1	F'ns of Several Vars	15,19,21	9/19
14.2	Limits, continuity	9,11,13,15,17,20,21,37	+9/24
14.3	Partial Derivatives	15,19,21,31,33,41,53,59,61	+09/29
14.4	Tang Plane to Surface	1,3,5	10/01
14.5	Chain Rule	1,3,5,7,9,11	10/03
14.5	Implicit Differentiat	27,29,31,33	10/06
14.6	Directional&gradient	5,6,7,9,11,19,21,23,27	10/08
	First Midterm – Friday, October 10th - covers 12.1-14.5		
14.6	Tang to Level Surface	43,44,46,54,58	10/13
14.7	Min/max	5,7,9,11,13,49,53,55	10/15
14.8	Lagrange multipliers	3,5,7,11,17,19,39,43	10/17
15.1	Iterated Integrals	15,21,29,31,37,39	10/20
15.2	General regions	5,7,9,13,17,21,25,27,51,53	10/22
15.3	Polar Double Integral	7,11,13,15,17,18,23,25	10/24
15.6	Triple Integrals	3,9,13,15,19	10/27
15.7	Cylindrical Coords	5,6,7,9,17,19,21,29	10/29
15.8	Spherical Coords	5,6,7,9,17,21,27,30	11/01
15.9	Jacobian	7,10,12,13,16,17,26	11/03
16.1	Vector Fields	21,22,23	11/05
	Second Midterm – Friday, November 7th -covers 14.6-15.9		
16.2	Line Integrals	3,7,11,14,21,22	11/10
16.3	Conservative Fields	3,5,7,13,15,19	11/12
16.4	Green's Theorem	1,3,7,9,13	11/14
16.5	Curl & Div	1,3,7,13,15,17,19,21	11/17
16.6	Parametric surfaces	19,23,26,39,45,50	11/21+
	Thanksgiving Recess, Nov 25-Nov 30		
16.7	Surface Integrals	9,17,23,27	12/01
16.8	Stoke's Theorem	2,7,14,15	+ 12/05
16.9	Gauss' Theorem		12/05

Final Exam: TBA Cumulative -covers 12.1-16.8