

MATH 213- SPRING 2011

Week Dates	Section & Topic	Homework Assignments		
Week 1 <small>1/18 – 1/21</small>	12.5: Lines and Planes in Space	1	p.871:	1,3,9,13,19,21,23
	12.5: Lines and Planes in Space (cont.)	2	p.871:	29,33,39,45,47,53,59
	12.6: Cylinders and Quadric Surfaces	3	p.881:	1,9,15,21,31,35,45,53,59,61,63
Week 2 <small>1/24 – 1/28</small>	13.1: Vector Functions	4	p.900:	1,5,9,11,15,21,23,27,33,37
	13.2: Modeling Projectile Motion	5	p.911:	1,7,17
	13.3: Arc Length and the Unit Tangent Vector T	6	p.919:	1,5,11
Week 3 <small>1/31 – 2/4</small>	13.4: Curvature and the Unit Normal Vector N	7	p.926:	1,3,9,13,21
	13.5: Torsion and the Unit Binormal Vector B	8	p.933:	1,5,11,15
	14.1: Functions of Several Variables	9	p.957:	1,7,11,13,19,21,27,29,33,35,41
Week 4 <small>2/7 – 2/11</small>	L▶ REVIEW FOR EXAM #1	10	L▶	STUDY FOR EXAM #1
	L▶	MIDTERM EXAM I: WEDNESDAY ~ FEBRUARY 9, 2011		
	L▶ GO OVER EXAM #1			
	14.2: Limits and Continuity in Higher Dimensions	11	p.966:	1,3,9,13,19,21,27,33
	14.3: Partial Derivatives	12	p.978:	1,9,13,15,17,29,35,41,43,53,57
Week 5 <small>2/14 – 2/18</small>	14.4: The Chain Rule	13	p.987:	1,7,9,13,15,23,25,31,33
	14.5: Directional Derivatives and Gradient Vectors	14	p.997:	1,7,9,15,21,23
	14.6: Tangent Planes and Differentials	15	p.1008:	1,5,9,17,19,27,29,31,37,39,43,49,53
Week 6 <small>2/21 – 2/25</small>	14.7: Extreme Values and Saddle Points	16	p.1018:	1,9,11,19,23,27,29,33,37,41
	14.8: Lagrange Multipliers	17	p.1031:	3,7,9,15,17,23,25,29,33,37
	14.9: Partial Derivatives with Constrained Variables	18	p.1037:	1,5
Week 7 <small>2/28 – 3/4</small>	15.1: Double Integrals	19	p.1063:	1,5,7,13,17,23,27,29,33,37,41,47,51,55
	15.2: Areas, Moments and Centers of Mass	20	p.1073:	3,5,11,13,17,19,21,27
	15.3: Double Integrals in Polar Form	21	p.1081:	1,7,11,13,19,23,25,29

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Week 8 3/7 – 3/11	L▶	REVIEW FOR EXAM #2	22	L▶	STUDY FOR EXAM #2
	L▶	MIDTERM EXAM II: WEDNESDAY ~ MARCH 9, 2011			
	L▶	GO OVER EXAM #2			
	15.4:	Triple Integrals in Rectangular Coordinates	23	p.1090:	1,7,13,17,19,23,27
	15.4:	Triple Integrals in Rectangular Coordinates (cont.)	24	p.1090:	1,7,13,17,19,23,27
Week 9 3/14 – 3/18	L▶	SPRING RECESS: MARCH 13-19, 2011			
Week 10 3/21 – 3/25	15.5:	Masses and Moments in Three Dimensions	25	p.1096:	3,5,7,13,17,19
	15.6:	Triple Integrals in Cylindrical and Spherical Coordinates	26	p.1108:	1,3,9,11,17,21,25,27,33,39
	15.6:	Triple Integrals in Cylindrical and Spherical Coordinates (cont.)	27	p.1108:	43,45,51,57,59,63,67,71,79
Week 11 3/28 – 4/1	L▶	LAST DAY TO WITHDRAW FROM THIS COURSE			
	15.7:	Substitutions in Multiple Integrals	28	p.1119:	1,7,13,15,19
	16.1:	Line Integrals	29	p.1132:	1,3,7,9,15,19,23,27
	L▶	MATLAB ASSIGNMENT			
Week 12 4/4 – 4/8	16.2:	Vector Fields, Work, Circulation, and Flux	30	p.1142:	1,3,7,9,15,17,21,25,37,41
	16.3:	Path Independence, Potential Functions, and Conservative Fields	31	p.1152:	1,3,7,9,13,19
	16.4:	Green's Theorem	32	p.1163:	1,5,7,15
Week 13 4/11 – 4/15	L▶	REVIEW FOR EXAM #3	33	L▶	STUDY FOR EXAM #3
	L▶	MIDTERM EXAM III: WEDNESDAY ~ APRIL 13, 2011			
	L▶	GO OVER EXAM #3			
	16.4:	Green's Theorem (cont.)	34	p.1163:	19,21
	16.5:	Surface Area and Surface Integrals	35	p.1174:	1,5,9,13,15,19,23,27,33,43

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Week 14 4/18 – <u>4/22</u>	16.5:	Surface Area and Surface Integrals (cont.)	36	p.1174:	23,27,33,43
	16.6:	Parametrized Surfaces	37	p.1183:	1,5,9,19,25,31,39,41,47 and ▪ MATLAB ASSIGNMENT DUE
	16.7:	Stokes' Theorem	38	p.1193:	1,5,9
<u>4/22</u>	L▶	GOOD FRIDAY ~ NO CLASSES SCHEDULED			
Week 15 4/25 – 4/29	16.7:	Stokes' Theorem (cont.)	39	p.1193:	13,15
	16.8:	The Divergence Theorem and a Unified Theory	40	p.1204:	1,7,11,15
	L▶	REVIEW FOR FINAL EXAM	41	L▶	STUDY FOR FINAL EXAM
Week 16 5/2 - <u>5/4</u>	L▶	REVIEW FOR FINAL EXAM	42	L▶	STUDY FOR FINAL EXAM
	L▶	TUE MAY 3 CLASSES FOLLOW A FRIDAY SCHEDULE			
	L▶	5/4 READING DAY			
Finals	FINAL EXAM WEEK: MAY 5-11, 2011				