

MATHEMATICS ASSIGNMENTS
 MULTIVARIABLE CALCULUS
 MS. WILDSTROM
 OCTOBER 26- DECEMBER 3, 2009

DATE	READING	PROBLEMS DUE	WORKSHEET
	LECTURE		QUIZ/TEST
Mon.,	10-26	14.6	
Tues.,	10-27	Review	
Wed.,	10-28	Review	
Thurs.,	10-29	15.1	
Fri.,	10-30	15.1,2	
Mon.,	11-2		
Tues.,	11-3	15.2	
Wed.,	11-4	15.2,3	
Thurs.,	11-5		
Fri.,	11-6	15.3	
Mon.,	11-9	15.3,4	
Tues.,	11-10	15.4	
Wed.,	11-11	15.4	
Thurs.,	11-12	15.5	
Fri.,	11-13	15.5	
Mon.,	11-16		
Tues.,	11-17		
Wed.,	11-18	Review	
Thurs.,	11-19	Review	
Fri.,	11-20	Review	
Mon.,	11-23		
Tues.,	11-24		
Wed.,	11-25		
Thurs.,	11-26		
Fri.,	11-27		
Mon.,	11-30	15.6	
Tues.,	12-1	15.6	
Wed.,	12-2	15.6	
Thurs.,	12-3		

OBJECTIVES: Students should be able to:

1. sketch, visualize, and determine curve length for parametrized curves expressed as vector-valued functions (15.1)
2. find limits, derivatives, and integrals of vector-valued functions and use them to determine parametric equations for lines tangent to curves. (15.2)
3. use vector-valued functions and the notions of derivatives and integrals to work with motion (position, velocity, acceleration, etc.) (15.3)
4. develop and use the notion of curvature at a point on a curve. (15.4)
5. use curvature to analyze the motion of objects by investigating the tangential and normal components of acceleration. (15.5)
6. understand more about Kepler's laws based on the proofs provided. (15.6)