

MATHEMATICS ASSIGNMENTS
 MULTIVARIABLE CALCULUS
 MS. WILDSTROM
 AUGUST 31-SEPTEMBER 24, 2009

DATE	READING	LECTURE	PROBLEMS DUE	WORKSHEET QUIZ/TEST
Mon.,	8-31	Introduction		
Tues.,	9-1	9.1		
Wed.,	9-2	9.2		
Thurs.,	9-3		Sheets 9.1, 9.2	
Fri.,	9-4	9.3		
Mon.,	9-7		NO SCHOOL!	Journal (9-7)
Tues.,	9-8	9.4		
Wed.,	9-9		Sheets 9.3, 9.4	
Thurs.,	9-10	9.5,6		
Fri.,	9-11	9.7	Sheet 9.5,6	
Mon.,	9-14	Improper integrals	Sheet 9.5,6	
Tues.,	9-15	Series convergence	Select from the handouts	
Wed.,	9-16	Power Series	Select from the handouts	
Thurs.,	9-17		NOTEBOOKS DUE!	Integration Techniques
Fri.,	9-18	Maclaurin/Taylor	Select from the handouts	Journal (9-20)
Mon.,	9-21		Loose Ends	
Tues.,	9-22		Group Work	
Wed.,	9-23		Group Work	
Thurs.,	9-24	14.1,2		Group Work Due

OBJECTIVES: Students should be able to:

1. determine integral solutions by using integration by parts. (9.1)
2. determine integral solutions by using trigonometric rules and identities. (9.2)
3. determine integral solutions by using trigonometric substitutions to convert integrands into expressions that are integrable. (9.3)
4. determine integral solutions by decomposing rational expressions into sums of simpler rational expressions (partial fractions). (9.4)
5. determine integral solutions of integrands containing quadratic forms by completing the square. (9.5)
6. determine integral solutions using creative substitution techniques. (9.6)
7. use a table of integrals to determine an integral solution. (9.7)
8. determine solutions to problems involving improper integrals. (10.3,4)
9. use appropriate tests (ratio, p, and root mainly) to determine whether a series converges. (11)
10. use derivatives of polynomials to determine power series representations for some common transcendental functions (11.7)
11. use derivatives of polynomials to determine Maclaurin and Taylor series approximations for functions. (11.8)