

DIXIE STATE COLLEGE - - Fall 2009
MATHEMATICS DEPARTMENT

Course Number: MATH 2210**Section Number:** 01**Room Number:** NIB 136**Instructor:** Ross Decker**Office Phone Number:** 652-7763**Text:** Calculus—Concepts and Contexts (3rd Edition)**Prerequisites:** C or better in **MATH 1220****Course Title:** Multivariable Calculus**Meeting Time:** MWF 10:00 – 10:50 AM

Aug 24 to Dec 16

Office Room Number: NIB 139**Office Hours:** MWF 11-12, TuTh 12-1, or by appointment**Author:** James Stewart

Exam dates and points possible are as follows:

Exam 11A	Sep 4-9	100 points
Exam 11B	Sep 23-25	100 points
Exam 12A	Oct 9-13	100 points
Exam 12B	Oct 28-30	100 points
Exam 13A	Nov 13	100 points
Exam 13B	Dec 4-8	100 points
Final Exam	Dec 16 (9:30-11:30)	200 points
Homework	(5 points per assignment)	<u>145 points</u>
TOTAL POINTS:		945 points

ATTENDANCE: Any student who misses the first two days of class will be dropped from the class.**DISHONESTY:** If it is determined that you cheated, you will receive a zero for that exam.

If cheating occurs a second time, you will receive an F for the course.

DISABILITIES: If you are a student with a medical, psychological, or learning disability, and would like accommodations or think you might have a disability, contact the Disability Resource Center (652-7516) in the Student Services Center, Room 201. The Disability Resource Center will determine eligibility based on your professional documentation and determine the appropriate accommodations related to your disability.**GRADES:** Your semester grade will be based on the following scale: **A**(92-100%), **A-**(89-92%), **B+**(86-89%), **B**(82-86%), **B-**(79-82%), **C+**(76-79%), **C**(72-76%), **C-**(69-72%), **D+**(66-69%), **D**(62-66%), **D-**(59-62%), **F**(0-59%)**GENERAL REMARKS:** It is the responsibility of each student to make time each day to read the text, attempt all homework problems, study for exams, and get extra help. Your work should be neat and easily read. Problems will be graded more for the work shown than for the final answer. Assignments should be considered a minimum and many students should work additional problems to reach mastery. Course schedules, assignments, and exam dates are subject to change as circumstances dictate.

COURSE OBJECTIVES

All mathematics classes at Dixie State College will:

1. Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations and/or calculus techniques.
2. Provide students with application problems that use a variety of methods including arithmetical, algebraic, and geometric methods.
3. Challenge students to make inferences from mathematical models that include formulas, graphs, and tables.
4. Provide students with real-life applications that use a variety of mathematical functions.

Upon successful completion of MATH 2210, a student will demonstrate through testing, the ability to:

1. Use plane and space vectors to solve applications in geometry and physics.
2. Use space curves to analyze the motion of an object.
3. Use contour diagrams to analyze the behavior of a function of several variables.
4. Use partial derivatives to solve optimization problems.
5. Set up and compute double and triple integrals in order of integration using rectangular coordinates.
6. Set up and compute double and triple integrals using polar, cylindrical, and spherical coordinates.
7. Use line integrals to compute the work done by a vector field along a curve.
8. Use surface integrals to compute the flux of a vector field through a surface.
9. Use multiple integrals to calculate some line and surface integrals.

MON	WED	FRI	
8/24 11.1	8/26 11.2	8/28 11.3	11.1 1,2,4,6,9,10,11,15,17,31-36 11.2 1,2,5,7,11,13,15,17,25,28,30
8/31 11.3 (cont.)	9/2 11.4	9/4 Review 11A	11.3 1,2,4,6,9,17,19,23,25,31,35,37,47-59odd,64bc,65 11.4 1,4,9,10,13,18,23,25,26,27,29,30,33,35
9/7 Labor Day	9/9 11.5 A	9/11 11.5 B	11.5A 1-15o,18,20-24 11.5B 25-30,32-35,39
9/14 11.6	9/16 11.7 A	9/18 11.7 B	11.6 1,5,7,14,19,24,25,27,30-32,35,41 11.7A 1-9o,12,15,33
9/21 11.8	9/23 Review 11B	9/25 12.1	11.7B 21,25,34,37,41,42,45 11.8 5,13,15,23,29,33,34
9/28 12.2	9/30 12.3 A	10/2 12.3 B	12.1 1,6,10 12.2 1,3,5,9,11,13,18,19,21,26,27
10/5 12.4	10/7 12.4 (cont.)	10/9 Review 12A	12.3A 1,3,7,11,12,13,17,19 12.3B 21-25o,29,33-41o,50
10/12 12.5	10/14 12.6	10/16 Fall Break	12.4 1,3,4,6,11,14,19,21,25,27,30 12.5 1,5,9,11,12,16,18
10/19 12.7 A	10/21 12.7 B	10/23 12.8	12.6 1,5,6,7,10,15 12.7A 2,3,9,10,11-19o
10/26 12.9	10/28 Review 12B	10/30 13.1	12.7B 20,25,26,31,38,43 12.8 1-7,9,11,17,18,21,23,27
11/2 13.2	11/4 13.2 (cont.)	11/6 13.3	12.9 1,3,5,7,8,9,11,15,19,21 13.1 3-31eoo,33
11/9 13.4	11/11 Review 13A	11/13 Exam 13A	13.2 1-37odd 13.3 3-23odd,29,31
11/16 13.5	11/18 13.5 (cont.)	11/20 13.6	13.4 1-19odd 13.5 1,5,7-10,11-19odd
11/23 13.7	11/25 THANKSGIVING	11/27 THANKSGIVING	13.6 5-29eoo,33,34 13.7 3-17odd
11/30 13.7(cont.)	12/2 13.8	12/4 Review 13B	13.8 1-17odd
12/7 Review for Final	12/9 Review for Final	12/11 Review for Final	

12/16
Final Exam
9:30 – 11:30

see also: <http://www.dixie.edu/reg/syllabus/>

Testing Center Hours

Monday – Friday
9 AM to 10 PM

Saturday
2 PM to 10 PM

Sunday
4 PM to 10 PM