

DIXIE STATE COLLEGE - - Spring 2010
MATHEMATICS DEPARTMENT

Course Number: MATH 2210**Section Number:** 01**Room Number:** NIB 135**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

Jan 11 to May 3

Office Room Number: NIB 139**Office Hours:** 9 to 10 daily, or by appointment**Author:** James Stewart

Exam dates and points possible are as follows:

Exam 11A	Jan 25-27	100 points
Exam 11B	Feb 8-10	100 points
Exam 12A	Feb 24-26	100 points
Exam 12B	Mar 19-22	100 points
Exam 13A	Apr 5-7	100 points
Exam 13B	Apr 21-23	100 points
Final Exam	May 3 (9:30-11:30)	200 points
Homework	(5 points per assignment)	<u>125 points</u>
TOTAL POINTS:		925 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	
1/11 11.1	1/13 11.2	1/15 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
1/18 MLK Day	1/20 11.4	1/22 Review 11A	11.3 1,2,4,6,9,17,19,23,25,31,35,37,47-57odd,62bc,63 11.4 1,4,9,10,13,18,23,25,26,27,29,30,33
1/25 Exam 11A	1/27 11.5	1/29 11.6	11.5 1-13o,16,18,19,20,21,22,23,26,27,28,30,31,34,37,41 11.6 1,5,7,14,19,24,25,27,30-32,35,41
2/1 11.7	2/3 11.8	2/5 Review 11B	11.7 1,3,5,7,9,12,15,19,23,31,32,35,39,40,43 11.8 5,13,15,23,29,33,34
2/8 Exam 11B	2/10 12.1	2/12 12.2	11.R 1,2,5,6,9,10,11a,13-26,29,32-37,40,42-48,50-65 12.1 3,6,10
2/15 Presidents Day	2/17 12.3	2/19 12.4	12.2 1,3,5,9,11,16,17,19,24,25 12.3 1,3,7,11,12,13,17,18,19-37odd,46,pg 912 #31
2/22 Review 12A	2/24 Exam 12A	2/26 12.5	12.4 1,3,4,6,11,14,19,21,25,27,30 12.5 1,5,7,9,10,14,16
3/1 12.6	3/3 12.7	3/5 12.8	12.6 1,5,6,7,10,13 12.7 2,3,9,10,11,13,15,17,18,23,24,29,36,41
3/8 S P R I N G	3/10 B R E A K	3/12	12.8 1-7,9,11,15,16,19,21,25 12.9 1,3,5,7,8,9,11,15,19,21
3/15 12.9	3/17 Review 12B	3/19 Exam 12B	12.R 1,3,5,9,10,14,17,20,23-35,37,39,40,42,44,47,49-51, 12.4 #10,27 13.1 3-31eoo,33
3/22 13.1	3/24 13.1(cont.)	3/26 13.2	13.2 1-35odd 13.3 3-23odd,29,31
3/29 13.3	3/31 13.4	4/2 Review 13A	13.4 1-19odd 13.5 1,5,7-10,11-19odd
4/5 Exam 13A	4/7 13.5	4/9 13.6	13.6 5-29eoo,33,34 13.7 3-17odd
4/12 13.7	4/14 13.7(cont.)	4/16 13.8	13.8 1-17odd 13.R 2-19,25-35
4/19 Review 13B	4/21 Exam 13B	4/23 Review for Final	
4/26 Review for Final	4/28 Review for Final		
5/3 Final Exam 9:30-11:30			

Testing Center Hours

Monday
1 PM to 10 PM

Tuesday, Wednesday, Thursday, Friday
9 AM to 10 PM

Saturday
2 PM to 10 PM

Sunday
4 PM to 10 PM