

DIXIE STATE COLLEGE - - Fall 2009
MATHEMATICS DEPARTMENT

Course Number: MATH 1100**Section Number:** 04S**Room Number:** TEC 110**Instructor:** Ross Decker**Office Phone Number:** 652-7763**Text:** Calculus and Its Applications**Prerequisites:** C or better in **MATH 1050** or ACT of 25 or higher**Course Title:** Business Calculus**Meeting Time:** MWF 8:00 – 8:50 AM

Aug 24 to Dec 18

Office Room Number: NIB 139**Office Hours:** MWF 11-12, TuTh 12-1, or by appointment**Authors:** Bittinger, Ellenbogen

Exam dates and points possible are as follows:

| | | |
|----------------------|---------------------------|-------------------|
| Exam 1 | Sept 16-18 | 100 points |
| Exam 2 | Oct 5 | 100 points |
| Exam 3 | Oct 23-27 | 100 points |
| Exam 4 | Nov 13-17 | 100 points |
| Exam 5 | Dec 4-8 | 100 points |
| Final Exam | Dec 18 (7:30-9:30) | 200 points |
| Homework | (5 points per assignment) | <u>170 points</u> |
| TOTAL POINTS: | | 870 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 1100, a student will demonstrate through testing, the ability to:

1. Discuss and analyze the concept of limits and the interrelationships of the graphic, numeric, and symbolic approaches to limits.
2. Discuss and analyze the interpretations of functions and their first and second derivatives.
3. Apply basic calculus techniques to data and functions that serve to model real-life applications of business, economics, social science, and architecture careers.
4. Apply the definite integral as the limit of a sum to applications in the areas of business, economics, sociology, and ecology.

| MON | WED | FRI | | |
|----------------------------------|------------------------------------|---|--|---|
| 8/24 R Review | 8/26 1.1 | 8/28 1.2 | Ch R Review (Pg 91) 1-49 1.1 1-10, 27-44, 45-63odd | |
| 8/31 1.3 | 9/02 1.4 | 9/04 1.5 | 1.2 1-25eoo, 27-32, 35-63eoo 1.3 1-15o, 19, 27, 28, 34, 39 | |
| 9/07 Labor Day | 9/09 1.6 | 9/11 1.7 | 1.4 5, 7, 11, 15, 21, 29 1.5 1-81eoo, 91-103eoo | |
| 9/14 1.8 | 9/16 Review 1 | 9/18 2.1, 2.2 | 1.6 1-45eoo, 97-105o 1.7 1-77eoo | |
| 9/21 2.3 | 9/23 2.4 | 9/25 2.5 | 1.8 1-41eoo 1R 1-14, 15-49o, 50-52 | |
| 9/28 2.6 | 9/30 2.7 | 10/02 Review 2 | 2.1 1-33eoo, 80 2.2 1-53eoo | |
| 10/05 Exam 2 | 10/07 3.1 | 10/09 3.2 | 2.3 1-57eoo 2.4 1-37eoo, 49-85eoo, 99 | |
| 10/12 3.3 | 10/14 3.4 | 10/16 Fall Break | 2.5 1-45eoo, 47 2.6 1-65eoo | |
| 10/19 3.5 | 10/21 3.6 | 10/23 Review 3 | 2.7 1-37o, 49-57o 2R 1-13, 16, 17, 21, 32-36, 40-49, 51, 52 | |
| 10/26 4.1 | 10/28 4.2 | 10/30 4.3 | 3.1 1-53eoo, 59, 83-87o 3.2 1-73eoo | |
| 11/02 4.4 | 11/04 4.5 | 11/06 4.6 | 3.3 1-23o, 27, 29, 44 3.4 1-7o, 11-35eoo | |
| 11/09 4.7 | 11/11 Review 4 | 11/13 Exam 4 | 3.5 1-37o 3.6 1-17o | |
| 11/16 5.1 | 11/18 5.2 | 11/20 5.3 | 3R 1-15, 17-37o, 39-41, 43, 47-50 4.1 1-29eoo | |
| 11/23 5.5 | 11/25 THANKSGIVING | 11/27 | 4.2 1-43eoo, 47-63o, 73-81eoo 4.3 1-37eoo, 43-59eoo, 73-81o, 87 | |
| 11/30 5.5 (cont.) | 12/02 5.7 | 12/04 Review 5 | 4.4 3-15eoo, 17-45eoo, 51, 59, 63, 65 4.5 1-57eoo, 59-67eoo, 76, 80 | |
| 12/07 Review for Final | 12/09 Review for Final | 12/11 Review for Final | 4.6 1-45eoo 4.7 1-29eoo, 31 | |
| | | 12/18 Final Exam 7:30 – 9:30 | 4R 1-16, 19-57 5.1 1-15 5.2 1-23o | see also: http://www.dixie.edu/reg/syllabus/ |
| 5.3 1-35o | 5.5 1-21eoo,25-28,47,53-57o | 5.7 1-33o | 5R 1-26,28-37,40-47,49,50 | |

Testing Center Hours

Monday – Friday

9 AM to 10 PM

Saturday

2 PM to 10 PM

Sunday

4 PM to 10 PM