

SYLLABUS MATH 1100
CALCULUS TECHNIQUES
SPRING SEMESTER, 2009-MWF 11:00 a.m.

Instructor: Adina Ionita

Credits: 3 Hours

Text: CALCULUS AND ITS APPLICATIONS.

Bittinger/ Ellenbogen 9th Edition

Office: NIB 156 879-4260

Office hours: 9-11 Daily

or by appointment

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- 1. OBJECTIVE:** All classes in mathematics at Dixie College support the general education goal of the college, and will:
- Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratio, algebraic equations and/or calculus technique.
 - Provide students with application problems that use a variety of methods including arithmetical, algebraic and geometric methods.
 - Challenge students to make inferences from mathematical models that include formulas, graphs and tables.
 - Provide students with real-life applications that use a variety of mathematical functions.

Upon successful completion of this course, the students will demonstrate through testing the ability to:

1. Discuss and analyze the concept of limits and 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 mode 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.

(Prerequisite: Math 1050 or 1090)

If you are a student with a medical, psychological, or learning disability and need accommodations, contact the Disability Resource Center (652-7516) in the Student Services Center. The Disability Resource Center will determine your and the appropriate accommodations related to your disability.

- 2. CALCULATOR:** A scientific calculator is required and a graphing calculator is allowed.

DMAIL: Important class and college information will be sent to your Dmail email account. This information includes your DSC bill, financial aid/scholarship notices, notification of dropped classes, reminders of important dates and events, and other information critical to your success in this class and at DSC. All DSC students are automatically assigned a Dmail email account. If you don't know your user name and password, go to www.dixie.edu and select "Dmail," for complete instructions. You will be held responsible for information sent to your Dmail email, so please check it often.

- 3. EXAMINATIONS:** Each student is expected to take the examinations as scheduled in the syllabus. Make-up exams will be given at the discretion of the instructor, and only if prior arrangements have been made. A final comprehensive exam will be given at the end of the term. The lowest test score can be replaced with the percent earned on the final exam.
- 4. ASSIGNMENTS:** Homework assignments are to be done each day, but will only be collected on the test day.
- 5. HELP:** I am available for help during posted office hours, and other times by appointment. There are also tutors available in the Browning Resource Center.
- 7. GRADES:** Each test is worth 100 points, the homework is worth 200 points, and the final exam

is comprehensive and worth 200 points for a total of 800 possible points. Grades will be assigned as follows: **A** (94-100%), **A-** (90-93%), **B+** (87-89%), **B** (83-86%), **B-**(80-82%), **C+**(75-79%), **C** (70-74%), **C-**(65-69%), **D+**(60-64%), **D**(55-59%), **D-**(50-54%), **F**(0-49%)

SCHEDULE and HOMEWORK ASSIGNMENTS:

MONDAY	WEDNESDAY	FRIDAY
01/05 Review; page 91: 1-48 all	01/07 Review; page 91: 49-57 all	01/09 1.1: 1-43 odd,47,55,57,59,64-68all 1.2: 1-53 eoo,37,19,27,35
01/12 1.3: 1-29 eoo,35,43	01/14 1.4: 1-25 eoo,19,23	01/16 1.5: 1-77 eoo,35,47,55,79
01/19 NO SCHOOL	01/21 1.6: 1-45 eoo,97,99,101,103,105,110	01/23 1.7: 1-57 eoo,51,59
01/26 1.8: 1-45 eoo,47,49,55	01/28 Review	01/30 TEST 1
02/02 2.1: 1-21eoo,35,43,69,71,75,79 2.2: 1-21 eoo,53,101,107	02/04 2.3: 1-61 eoo	02/06 2.4: 1-33 eoo, 61,63,97
02/09 2.5: 1-41eoo, 19,31,39,46,53	02/11 2.7: 1-29 eoo, 33, 37, 39, 45	02/13 Review
02/16 NO SCHOOL	02/18 TEST 2	02/20 3.1: 13-53 eoo, 75, 81
02/23 3.2: 1-73 eoo, 27, 79, 83	02/25 3.3: 1-21 eoo 3.4: 1-21 eoo	02/27 3.5: 1-41 eoo
03/02 4.1: 1, 3, 5, 9	03/04 4.2: 1-57 odd	03/06 4.3: 1-37 eoo, 43-63 odd
03/09 4.4: 1-21 odd, 27, 31, 35, 37, 45, 47, 51	03/11 4.5: 1-60 all	03/13 4.5. cont'd
03/16 SPRING BREAK	03/18 SPRING BREAK	03/20 SPRING BREAK
03/23 Review	03/25 TEST 3	03/27 5.1: 1-13 eoo
03/30 5.2: 1-33 eoo	04/01 5.3: 1-33 eoo	04/03 5.6: 1-17 eoo
04/06 6.1: 1-13 eoo	04/08 6.2: 1-41 eoo	04/10 6.3: 1-17 eoo, 19
04/13 6.6: 1-13 odd	04/15 Review	04/17 TEST 4
04/20 FINAL REVIEW	04/22 FINAL REVIEW	
04/27 FINAL EXAM 10:00-12:00		

IMPORTANT DATES: Go to <http://new.dixie.edu/reg/?page=spring2009>