

**SYLLABUS---MATH 1100**  
**CALCULUS TECHNIQUES**  
**CRN# 20397**  
**FALL SEMESTER, 2010**  
**Tu,Th 7:30 a.m.**

Instructor: Lynn R. Hunt

Credits: 3 Hours

Text: CALCULUS AND ITS APPLICATIONS.  
Bittinger/Ellenbogen 9th Edition

Office: NIB 152 652-7762

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Hours: 10 – 12 M - Th  
3 – 3:30 M-Th

**1. OBJECTIVES:** 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/ratios, algebraic equations and/or calculus techniques.
- 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 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 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. Also required are basic skills on a graphing calculator.

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. CALCULATORS:** A graphing calculator is required. The TI-83/84 will be used in class. Instruction can also be given on the TI-85, TI-86, TI-89 and TI-92.

**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.

**4. ATTENDANCE:** Attendance is essential and roll will be taken. Tardiness will be frowned upon and may invoke the ire of the instructor.

**5. ASSIGNMENTS:** Homework assignments are to be done each day, but will only be collected on the day of the test. Put all homework together, fold in half lengthwise, and at the top include: (for example)

John Doe  
Math 1100, 7:30  
Ch. 1  
ALL - ?

**6. HELP:** I am available for help during posted office hours, and other times by appointment. There are also tutors available in the Browning building.

**7. SEMESTER SCHEDULE:** <http://new.dixie.edu/reg/?page=spring2010>

**8. GRADES:** Grades will be based on the ratio of the number of points earned by the student to the total number of points possible on all assignments and examinations. Grades will be sent to your Dmail address after each test. Grades will be assigned as follows:

<b>A</b>	100 – 94%	<b>B</b>	86 – 83%	<b>C</b>	74 – 70%	<b>D</b>	59 – 55%
<b>A-</b>	93 – 90%	<b>B-</b>	82 – 80%	<b>C-</b>	69 – 65%	<b>D-</b>	54 – 50%
<b>B+</b>	89 – 87%	<b>C+</b>	79 – 75%	<b>D+</b>	64 – 60%	<b>F</b>	49 – 0%

**20397 ASSIGNMENT SCHEDULE (M-1100,F10.30.Tu,Th) 20397**

AUG 24	CH. R p. 91: 1-48 ALL		
Th 26	CH. R p. 91: 49-57 ALL	Th 28	3.1 EOO 13-37,75,76,81,85,87
Tu 31	1.1 ODDS-43,47,55,57, 59,64-68		3.2 EOO-73,27,75,79,83
	1.2 EOO-53,3,7,19,27,35	NOV 2	3.2 CONT.
SEPT 2	1.3 EOO-29,35,43		3.3 EOO-29,18,19,21,39
Tu 7	1.4 EOO-25,19,23	Th 4	3.4 EOO-29
Th 9	REVIEW		3.5 EOO-41
<b>Th-Tu 9-14</b>	<b>TEST CHS. R - 1.4 (CENTER)</b>	Tu 9	4.1 1,3,5
Tu 14	1.5 EOO-77,35,47,55,79,83		4.2 EOO-41,47,51,55,59,60, 63,65
Th 16	1.6 EOO-45,97,99,101,103, 105,110	Th 11	4.3 EOO-37,15,19,23,34,35,43 49,59,61,63,73,77,88
Tu 21	1.7 EOO-57,51,59	Tu 16	4.4 1,3,5,7,11,13,15,16,19,21, 27,31,35,37,45,47,51
	1.8 EOO-45,47,49,55		TEST CHS. 3-4 (TAKE HOME)
Th 23	2.1 EOO-21,35,43,69,71,75,79		DUE by Tuesday the 23th
	2.2 EOO-21,47,53,101,107	Th 18	5.1 EOO-17,19,21
Tu 28	2.2 CONT.		5.2 ODDS-17,23,25,29
	2.4 EOO-33,45,61,63,97 101,103	Tu 23	5.2 Finish
Th 30	REVIEW		TAKE HOME TEST DUE
<b>Th-Tu 30-5</b>	<b>TEST CHS. 1.5-2.4 (CENTER)</b>	W-F 24-26	NO SCHOOL
OCT 5	2.5 EOO-41,19,31,39,46,53	Tu 30	5.3 1,3,5,13,25,29,31
Th 7	2.5 CONT.		5.7 9,15,17,21,23,25,33,37
Tu 12	2.6 EOO-21,20,23,24,25, 26,29,49,57	DEC 2	6.1 EOO-13
Th-F 14-15	NO SCHOOL		6.2 EOO-17,27,31,35,41
Tu 19	2.7 EOO-21,27,33,37,39,45	Tu 7	6.3 TBA
		Th 9	FINAL REVIEW
Th 21	Finish 2.7	<b>Tu 14</b>	<b>FINAL EXAM (IN CLASS)</b>
Tu 26	REVIEW		<b>CHS. 5 - 6 AND COMP.</b>
<b>Tu-Tu 26-2</b>	<b>TEST CH. 2.5-2.7 (CENTER)</b>		<b>7:00 am</b>