

**SYLLABUS---MATH 1100**  
**CALCULUS TECHNIQUES**  
**SPRING SEMESTER, 2008**  
**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

Hours: 9 - 10:00 W

10 - 11:45 DAILY

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 and is recommended for Math 1050, Math 1060, Math 1090, Math 1100. Instruction will 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. 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 posted using the last four digits of the students SS#. **If you do not want your grade posted notify the instructor in writing.** 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%

#### ASSIGNMENT SCHEDULE(M-1100,S08.30.Tu,Th)

JAN 8	CH. R p. 91: 1-48 ALL	Tu 18	3.1 EOO 13-37,75,76,81,85,87
Th 10	CH. R p. 91: 49-57 ALL		3.2 EOO-73,27,75,79,83
Tu 15	1.1 ODDS-43,47,55,57, 59,64-68	Th 20	3.2 CONT.
	1.2 EOO-53,3,7,19,27,35	Tu 25	3.3 EOO-29,18,19,21,39
Th 17	1.3 EOO-29,35,43		3.4 EOO-29
Tu 22	1.4 EOO-25-19-23	Th 27	3.5 EOO-41
Th 24	REVIEW		4.1 1,3,5
<b>Th-Tu24-29</b>	<b>TEST CHS. R - 1.4 (CENTER)</b>		4.2 EOO-41,47,51,55,59,60, 63,65
Tu 29	1.5 EOO-77,35,47,55,79,83	APR 1	4.3 EOO-37,15,19,23,34,35,43 49,59,61,63,73,77,88
Th 31	1.6 EOO-45,97,99,101,103, 105,110	Th 3	4.4 1,3,5,7,11,13,15,16,19,21, 27,31,35,37,45,47,51
FEB 5	1.7 EOO-57,51,59		TEST CHS. 3-4 (TAKE HOME)
	1.8 EOO-45,47,49,55		DUE by Tuesday the 15th
Th 7	2.1 EOO-21,35,43,69,71,75,79	Tu 8	5.1 EOO-17,19,21
	2.2 EOO-21,47,53,101,107		5.2 ODDS-17,23,25,29
Tu 12	2.2 CONT.	Th 10	5.3 1,3,5,13,25,29,31
	2.4 EOO-33,45,61,63,97,101		5.4 1,5,9,13,15,19,21,25,27, 29,31,33
Th 14	REVIEW	Tu 15	5.7 9,15,17,21,23,25,33,37
<b>Th-W 14-20</b>	<b>TEST CHS. 1.5-2.4 (CENTER)</b>	Th 17	6.1 EOO-13
Tu 19	2.5 EOO-41,19,31,39,46,53		6.2 EOO-17,27,31,35,41
Th 21	2.5 CONT.	Tu 22	6.3 EOO-17,19
Tu 26	2.6 EOO-21,20,23,24,25, 26,29,49,57	Th 24	FINAL REVIEW
Th 28	2.7 EOO-21,27,33,37,39,45	Tu 29	FINAL EXAM (IN CLASS)
MAR 4	REVIEW		CHS. 5 - 6 AND COMP.
Th 6	TEST CHS. 1.5-2.7 (IN CLASS)		7:00 am
M-F 10-14	NO SCHOOL		