

SYLLABUS---MATH 1100 MML
CALCULUS TECHNIQUES
CRN# 20397
SPRING SEMESTER, 2013
Tu,Th 7:30 a.m.

Instructor: Lynn R. Hunt

Credits: 3 Hours

Text(Optional) CALCULUS AND ITS APPLICATIONS.
Bittinger/Ellenbogen 10th Edition

Office: NIB 152 652-7762

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Hours: 10 – 12 M - Th

3 – 3:30 M-Th

Computer Software: Purchase access code from the Book Store

Course ID #: hunt88399

This section will be taught as a lecture course but will include an extensive computer based component. This means all homework will be done, checked and submitted to the instructor on the computer through a program called My Math Lab. <http://www.mymathlab.com> You will also be given practice tests and review problems on the computer, although the chapter tests and final exam will be given in class. **You will need access to a computer with internet for daily assignments.** Computer labs on campus are available to those students who do not have internet access. You can find your course ID number on this syllabus, 11 lines down from the top. You will receive more complete instructions on the first day of class.

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.
5. Understand Quantitative Analysis and how it applies to business. This is a technique that seeks to understand behavior by using complex mathematical modeling and by assigning a numerical value to variables to try to replicate reality mathematically.

(Prerequisite: Math 1050 or 1065. Also required are basic skills on a graphing calculator.

Students with medical, psychological, learning or other disabilities desiring reasonable academic adjustment, accommodations, or auxiliary aids to be successful in this class will need to contact the DISABILITY RESOURCE CENTER Coordinator (Baako Wahabu) for eligibility determination. Proper documentation of impairment is required in order to receive services or accommodations. DRC is located in the North Plaza. Visit or call 652-7516 to schedule appointment to discuss the process. DRC Coordinator determines eligibility for and authorizes the provision of services.

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. Math majors are encouraged to do most work without a calculator to be able to pass the Major Field Test given during your senior year.

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. An optional final exam will be given at the end of the semester and can replace your lowest test score. If you are satisfied with your final grade, you do not need to take the final exam.

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 on the computer each day and submitted to the instructor. Each assignment is due about 4 days after it is assigned. Check the Due dates in My Math Lab. Points will be deducted from assignments past the due date. It is very important that you keep current on the assignments.

6. HELP: I am available for help during posted office hours, and other times by appointment. There are also tutors available in the NIB and HCC (4th floor) buildings.

7. SEMESTER SCHEDULE: <http://new.dixie.edu/reg/?page=spring2013>

8. GRADES: Grades will be based on: Exams 75% Homework 25% You can see your grade and all your scores on My Math Lab. (Grade book) Letter grades will be assigned as follows:

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

20397 ASSIGNMENT SCHEDULE (M-1100,F12.30.Tu,Th) 20397

JAN 8	CH. R.1, R.2, R.3, R.4	Th 7	3.1
Th 10	CH. R.5, R.6.		3.2
Tu 15	1.1	M-F 11-15	NO SCHOOL
	1.2	Tu 19	3.3
Th 17	1.3		3.4
	1.4	Th 21	3.5
Tu 22	REVIEW		4.1
Tu-M 22-28	TEST CHS. R - 1.4 (CENTER)	Tu 26	4.3
Th 24	1.5		4.4
Tu 29	1.6		TEST CHS. 3-4 (TAKE HOME)
Th 31	1.7		DUE by Tuesday the 2nd
	1.8	Th 28	5.1
FEB 5	2.1	APR 2	5.2
	2.2		TAKE HOME TEST DUE
Th 7	2.2 CONT.	Th 4	5.2 CONT.
	2.4		5.3
Tu 12	REVIEW	Tu 9	5.7
Tu-Tu 12-19	TEST CHS. 1.5-2.4 (CENTER)		6.1
Th 14	2.5	Th 11	6.2
Tu 19	2.5 CONT .		6.3
Th 21	2.6	Tu 16	REVIEW
Tu 26	2.7	Th 18	TEST CH. 5-6 (IN CLASS)
Th 28	Finish 2.7	Tu 23	FINAL REVIEW
MAR 5	REVIEW	Th May 2	FINAL EXAM (IN CLASS)
Tu-M 5-11	TEST CH. 2.5-2.7 (CENTER)		OPTIONAL
			7:00 am