

**SYLLABUS--MATH 1100
CALCULUS TECHNIQUES**

SPRING SEMESTER, 2009

M&W 5:15 – 6:30 pm

NIB 133

Instructor:	Larry D. Esplin	Office:	NIB 104
Credits:	3 Hours	Hours:	By Appointment
Text:	<u>CALCULUS AND ITS APPLICATIONS.</u>	Phone:	652-7649
	Bittinger/Ellenbogen	9th Edition	Email: lesplin@dixie.edu

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.

If you are a student with a medical, psychological or a learning difference and requesting reasonable academic accommodations due to this disability, you must provide an official request of accommodation to your professor(s) from the Disability Resource Center within the first two weeks of the beginning of classes. Students are to contact the center on the main campus to follow through with, and receive assistance in the documentation process to determine the appropriate accommodations related to their disability.

You may call (435) 652-7516 for an appointment and further information regarding the Americans with Disabilities Act (ADA) of 1990 per Section 504 of the Rehabilitation Act of 1973. Our office is located in the Student Services Center, Room #201 of the Edith Whitehead Building.

2. CALCULATORS: A graphing calculator in required. The TI-83/84 will be used in class and is recommended for Math 1050, Math 1060, Math 1090, Math 1100.

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 each time we have an exam. Put all homework together, fold in half lengthwise, and at the top include of each section: (for example)

John Doe
Math 1100,
Ch. 1.1
Complete
(or complete except for #.....)

6. HELP: I am available for help by appointment. There are also tutors available in the tutoring center located in the Browning building. Our dixie.edu website contains links to areas that may be helpful:

- o Library - <http://library.dixie.edu>
- o Computer Lab -
- o Writing Center - http://new.dixie.edu/english/dsc_writing_center.php
- o Testing Center - <http://new.dixie.edu/testing>
- o Tutoring Center -

7. Dixie State College Academic Discipline policy

Cheating: Academic dishonesty in any form will not be tolerated at Dixie State College, including but not limited to plagiarism on written assignments, submitting other person's work as one's own, and cheating on exams or quizzes. Teachers at Dixie State College may discipline students proven guilty of academic dishonesty by:

Giving a failing grade on the specific assignment where dishonesty occurred,

Failing the student in the entire course,

Immediately dismissing and removing the student from the course, and/or

Referring the student to Student Affairs, a committee which may reprimand, place on probation, suspend, and/or expel the student.

Disruptive Behavior: Teachers at Dixie State College have the right to manage the classroom environment to ensure a good learning climate. Toward this end, teachers (or college security) may dismiss and remove disruptive students from individual class activities. If a student's behavior continues to disrupt class activities, the teacher may dismiss and cause the removal of disruptive students from their course.

Student Appeals: Students who believe themselves wrongfully disciplined may appeal those disciplinary actions through the standard grievance procedure. (Policy 5-35)

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 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%

ACADEMIC CALENDAR

SPRING SEMESTER 2009	SPRING BLOCK
Jan 5 Classwork begins (tuition and fees due)	Feb 17 Block classes begin (tuition and fees due)
Jan 7 Last day to add classes without signature	Feb 19 Last day to add without instructor permit
Jan 19 Martin Luther King Day Holiday	Feb 23 Pell Grant Census date for Block only students
Jan 20 \$50 late registration/payment fee	Feb 23 \$50 late registration/payment fee
Jan 27 Last day for refund	Feb 26 Last day for refund
Jan 27 Last day to drop without receiving a W grade	Feb 26 Last day to drop without receiving a W grade
Jan 27 Pell Grant Census date	Feb 27 Students dropped for non-payment
Jan 28 Students dropped for non-ayment	Mar 2 Last day to ADD Block classes
Jan 30 Last day to ADD classes	Mar 16-20 Semester Break
Feb 16 Presidents Day Holiday	Mar 23 Last day to DROP or audit block classes
Feb 17 Block courses begin	Mar 27 Last day for complete withdrawal
Feb 27 Last day to DROP or AUDIT classes	Apr 23 Classwork ends
Mar 16-20 Semester Break	Apr 24-30 Final Exams
Mar 27 Last day for complete withdrawal	May 1 Commencement
Apr 23 Classwork ends	
Apr 24-30 Final Exams	
May 1 Commencement	

PLEASE NOTE THAT YOU CAN ADD AND DROP YOUR CLASSES ONLINE UNTILE JANUARY 7, 2009.

SPRING SEMESTER FIVE-DAY FINAL EXAM SCHEDULE

Friday, April 24		Monday, April 27		Tuesday, April 28		Wednesday, April 29		Thursday, April 30	
Daily, MWF, MW, M Only		Daily, MWF, MW, M Only		TR, T Only		Daily, MWF, MW, M Only		TR, T Only	
Class Time	Exam Time	Class Time	Exam Time	Class Time	Exam Time	Class Time	Exam Time	Class Time	Exam Time
7:00	7:00-9:00	8:00	7:30-9:30	9:00	8:00-10:00	9:00	10:00-12:00	7:30/8:00	7:00-9:00
10:00	9:30-11:30	11:00	10:00-12:00	12:00	11:00-1:00	12:00	12:30-2:30	10:30	9:30-11:30
1:00	12:00-2:00	2:00	12:30-2:30	2:30	2:00-4:00	3:00	3:00-5:00	1:00	12:30-2:30
4:00	2:30-4:30								

Friday Only Classes		MW or M Only Classes		TR or T Only Classes		W Only Classes		R (Thursday) Only Classes	
5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00
7:30	7:30	7:30	7:30	7:30	7:30	7:30	7:30	7:30	7:30

BACHELOR DEGREE REGISTRATION AND ADVISEMENT
 To be admitted in a bachelor degree program you must be a matriculated Dixie State College student. In addition, certain B.S. programs (elementary education, nursing, business administration and CIT) require a secondary admission process after pre-core requirements are met. For help in this process, see advisor:

- ACCOUNTING ADVISOR: Shari Gowers, HAZY 347
(435) 652-7745, gowers@dixie.edu Appointments:
<http://cactus.dixie.edu/gowers/viewweek.asp>
- AVIATION MANAGEMENT ADVISOR: Roy Caldwell,
(435) 652-7726, rcaldwell@dixie.edu, HAZY 333
- BIOLOGY ADVISOR: Karen Bauer, SCI 102
(435) 652-7772, bauer_k@dixie.edu
- BUSINESS ADVISOR: Shari Gowers, HAZY 347
(435) 652-7745, gowers@dixie.edu Appointments:
<http://cactus.dixie.edu/gowers/viewweek.asp>
- COMMUNICATION ADVISOR:
Randal Chase, ECCLES 112, (435) 652-7990,
chase@dixie.edu

- COMPUTER AND INFORMATION TECHNOLOGY (CIT)**
 ADVISORS: Shari Gowers, HAZY 347
 (435) 652-7745, gowers@dixie.edu Appointments:
<http://cactus.dixie.edu/gowers/viewweek.asp> Bryan
 Parker, HAZY 348, (435) 652-7975, bparker@dixie.edu
- CRIMINAL JUSTICE ADVISOR:** Scott Julian, McDonald,
 (435) 652-7894, julian@dixie.edu
- DENTAL HYGIENE ADVISOR:** Karmen Aplanalp, JEN 107B
 (435) 652-7875, aplanalp@dixie.edu
- EDUCATION ADVISOR:** Elementary Ed.: Hazel Colebank, . . .
 EDFAM 139 (435) 652-7846, colebank@dixie.edu
 Secondary Ed.: Tracey Wheeler, (435) 652-7742,
 wheeler@dixie.edu
- ENGLISH ADVISOR:** Sue Bennett, MCDON 213
 (435) 652-7925, bennett@dixie.edu
- INTEGRATED STUDIES ADVISOR:** Darl Biniaz, BROWN207
 (435) 652-7813, biniaz@dixie.edu
- MUSIC/THEATRE ADVISOR:** Glenn Webb, ECCLES 103
 (435) 652-7969, webbg@dixie.edu
- NURSING ADVISOR:** Alice Clegg, TAYLOR 103
 (435) 652-7899, clegg@dixie.edu

Math 1100 Calculus Techniques
 (This is a tentative schedule. Teacher may change it at any time.)

<u>DATE</u>	<u>SEC.</u>	<u>ASSIGNMENT</u>
Jan 5	p 70 P 91	47-58 & 59-68 1-6,15,19,29-31, 33,35,36,40
Jan 7	1.1 1.2	11-43 odds, 49,55,59 1-21 odds,27,31,33, & 41-49 odds,59,61
Jan 12	1.3 1.4	1,5,7,9,15,29,31,33 1,3,7,11,13,15,25
Jan 14	1.5	1-69 e.o.o., 81,84
Jan 19	Holiday	
Jan 21	1.6	1-47 e.o.o., 101,103,110
Jan 26	1.7	1-69 e.o.o.,74
Jan 28	1.8	1-43 e.o.o., 45,46
Feb 2	Review Chapter 1 Feb 2 – Feb 4 Test in Testing Center	
Feb 4	2.1 2.2	1-25 e.o.o., 69-77 odds 1,3,5,9,11-31 e.o.o., 47-53 odds
Feb 9	2.4	1-33 e.o.o., 49,51,69, & 71,79,97
Feb 11	2.5	1-17 e.o.o., 23,27,29 & 31,33,39,41
Feb 16	Holiday	
Feb 18	2.7	1-33 e.o.o., 35,39
Feb 23	3.1	11-41 e.o.o., 47,75,76 & 85,87
Feb 25	3.2	1-61 e.o.o., 73,79

Note: e.o.o. means every-other odd problem
 i.e. 1,5,9,13,17,...

Mar 2	3.5	1-21 odds, 25-37 e.o.o. & 40
Mar 4	Review Chapter 2-3 Mar 4 – Mar 6 Test in Testing Center	
Mar 9	4.1	TBA
Mar 11	4.2	1-41 e.o.o., 47,51,55 & 61,63,65
March 16-20 Spring Break		
Mar 23	4.3	1-57 e.o.o., 59,60,63
Mar 25	4.4	1,3,5,13,15,16,19,21,27 31,35,37,39,45,47
Mar 30	4.5	1,3,5,6,7,8,11,15,16,19 20,25,26,29,39,41
Apr 1	Review Chapter 4 Apr 1 – Apr 3 Test in Testing Center	
Apr 6	5.1 5.2	1-13 odds 3,5,7,9,15,16
Apr 8	5.3	1-9 odds, 25,29,30
Apr 13	5.6	1-17 odds
Apr 15	5.7	7-21 odds, 29,33,35
Apr 20	6.1 6.2	1-9 odds 1,3,5,9,17,27,29,33,37,41
Apr 22	Review Chapter 5-6 & Final	
Apr 27	CHAPTER 5-6 TEST and FINAL EXAM 5:00 pm NIB 133	