

# Calculus for Business and Social Science MAT 134-170 SUMMER 2010

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**Office Hours:** M Tu Th 11:00 - 12:00 pm., W 10:00 – 12:00 pm.

**Prerequisite(s):** MAT 110 or MAT 111 with a grade of “C” or better, or a minimum Triton placement test score of 8 or ACT score of 24 (within the last two years.)

**Textbook:** Calculus and its Applications, Ninth Edition, Bittinger and Ellenbogen; Pearson Education; 2008

**Course description:** Provides an introduction to differential and integral calculus of algebraic, exponential, logarithmic, and multivariable functions. Places special emphasis on applications to business, economics, and the social sciences.

**Course objectives:** Upon successful completion of this course, the student should be able to:

Understand the basic methods and techniques of differential and integral calculus. The student will learn to apply the basic concepts of the calculus to a variety of problems in business, economics and the social sciences.

**Homework:** Will be assigned regularly. Homework should be completed, although it will be graded at random since quizzes will include Homework problems.

**Attendance:** Attendance will be monitored weekly. Each quiz taken will have automatically 10% of the score. If for any reason you are not able to take a test or a quiz, you should notify me the same day. You can leave a message at my extension at any time, 24 hours a day.

NO WITHDRAWALS WILL BE ISSUED AFTER THE LAST SCHEDULED DAY TO WITHDRAW FROM CLASSES.

Your total average in the course will be calculated using the following relative weights (letter grades are not averaged):

Tests (3)	45% (each test 15%, approx. one every two weeks, <b>on Campus</b> )
Homework & Class Participation	10% (since HW is graded at random)
Quizzes	20% (bi weekly, most likely will be able to drop one, <b>NO make ups</b> )
Final Exam	25% (last week of class, Mon. Aug. 2 – Fri. Aug. 6)

<b>Total Average</b>	<b>Grade in Course</b>
90 - 100	A
80 – 89	B
70 – 79	C
55 – 69	D
00 - 54	F

All exams will be cumulative, whereas quizzes will cover only the most recent material. Letter grades are assigned but the final grade will be based only on the numerical calculation. Make up exams only with an official college excuse.

**Important Note:** Every student is expected to have attempted at least half the assignments for each individual Test before being able to take it. Similarly for the Final Exam, students are expected to have attempted half the assignments of the course to proceed.

Internet Component:

**ALEKS**, (Required to Prep for course) Course Code: Will be sent through email.

**MyMathLab**, (Required for assignments) Course ID: Will be sent through email.

### **MAT 134 HOMEWORK ASSIGNMENTS SUMMER 2010**

**Multiples of 3:** 3,6,9,12,15,18,21,24,27,30,33,36,39,42,45,48,51,54,57,60,63,66,69,72,75,78,81,84,87,90,93,96,99,102

**Note:** These assignments may be subject to change

<b>SECTION</b>	<b>PAGE</b>	<b>ASSIGNMENT</b>	<b>Due</b>
1.1	110	11,15,19,23,29,31,33,37,39,45,51,55,57,59,67,69	
1.2	121	9,13,15,19,21,27,34,37,39,43,45,49,57	
1.3	130	1,7,9,15,17,27,29,33,37	
1.4	145	3,5,7,13,15,17,18,19,21,23,25,35,37,39,40	
1.5	156	1,5,7,9,11,13,25,27,31,37,43,52,53,55,57,63,65,69,77,79,81,87	
1.6	165	7,9,15,21,23,25,27,29,33,35,39,41,43,100,101,111	
1.7	174	3,5,7,9,11,13,17,23,25,27,31,37,41,45,51,58,63,64,67,71,75	
1.8	178	1,3,5,7,9,11,13,15,17,19,27,31,33,35,43,46,49,55	
2.1	211	1,5,7,11,15,17,19,21,23,25,27,29,35,41,43,47,51,53,101,105	
2.2	228	1,5,7,11,15,17,19,21,23,25,27,29,35,41,43,47,51,53,101,105	
2.3	243	1,5,9,11,13,17,21,25,29,33,39,43,45,47,49,57,61	
2.4	236	1,5,7,9,13,15,17,19,25,31,33,39,45,47	
2.5	270	11,13,15,17,19,25,27,31,33,35,37,39,41,43,45	
2.6	280	1,5,15,19,25,29,31,37,39,41,43,47,49	
2.7	288	3,7,11,13,17,21,23,25,27,31,33,39,45,47	
3.1	315	1,7,9,13,15,17,19,23,25,27,29,31,33,35,39,43,45,47,55,59,67,69,75,81,,83,84	
3.2	332	1,5,9,11,19,23,25,29,31,35,41,45,47,51,53,55,57,59,61,63,65,65,67,71,73,83	
3.3	347	3,9,15,17,21,25,27,31,33,35,43,47	
3.4	360	1,7,11,17,21,27,31,33,37,41,43,45	
3.5	368	1,5,7,9,13,21,25,29,37,43,45	
3.6	375	1,7,11,13	
4.1	398	1,5,9,13,19,23,25,27	
4.2	408	1,3,5,7,11,13,15,19,21,23,27,35,39,41,43,47,49,51,57,59,65,69	
4.3	421	1,3,5,9,13,25,27,35,43,51,53,57,61,63,65,69,73,77,83,87	
4.4	433	1,11,13,15,17,19,23,25,29,31,35,37,39,41,45,47,51,57	
4.5	442	1,3,7,9,11,15,17,19,25,27,29,31,33,35,39,41,43,45,57,49,51,59,65	
4.6	451	1,7,11,15,19,25,29,31,33,37	
4.7	470	1,7,9,17,21,25,29,31	
5.1	475	3,7,9,11	
5.2	482	1,3,7,13,15,19,23,27	
5.3	488	5,9,11,13,15,17,25,27,29,33,39	

5.4	500	13,15,19,21,25,27,29,35	
6.1	545	1,5,9,13	
6.2	554	3,7,11,13,23,25,27,29,31,33,35,39	
6.3	563	43,45,51,55	
6.4	671	1,7, 9	
6.5	579	1,3,5,7,8,9,11,13,15,17,19,23	
6.6	584	1,5,11,15,19,35,37	