Math 106Q
Calculus for Business and Economics
Spring 2006

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Mathematics
106Q
Spring 2006

Syllabus for
Calculus for Business & Economics

Course Home Page: http://www.math.uconn.edu/~dgross/math106s06

Text: *Calculus, Applications and Technology*, 3rd edition, by Edmond Tomastik, Brooks/Cole Publishing

Preparation: It is highly recommended you have a good background in algebra and non-integer arithmetic.

Note on the calendar: There are no classes from Monday, March 6 through Friday March 10 for Spring Break. Friday, April 28 is the last day

of classes. Our Final Exam will be on Wednesday, May 3 at 10:30 am.

Grading: Two exams (27% each)
Homework, Quizzes, Worksheets (10%)
Final Exam (36%)

Syllabus: The course will cover most of chapters 1 and 3 through 6, and a little of chapter 7. Anticipated coverage of the text, subject to change, is as follows:

Covered on Exam I: 1.1, A6, A7, 1.2, 1.4, 1.3, 1.5, 3.1, 3.2, 3.3, 3.4

Covered on Exam II: 4.1, 4.2, 4.3, 4.4, 4.5, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.8

Covered on Final Exam: all the above and 6.1, 6.2, 6.3, 6.4, 6.5, 7.2, 6.6, 6.7, 7.4

Goals: The goal for the semester is to learn, understand and be able to work with the main ideas of differential and integral calculus, including limits, continuity, differentiation, integration and various applications of the derivative and the integral. This does not only mean that you should be able to work through a bunch of problems similar to ones seen in the homework. But that you should have the ability to articulate the ideas presented in the course in a clear and coherent manner as well. You should also be able to apply the theory in new and imaginative ways as it pertains business and economics.

Expectations: I expect you to do most of your learning outside of the classroom. You should expect to spend 5-8 hours a week studying and working on calculus outside of class. Mathematics, like most subjects, is learned by doing it. We will not have time in class for you to do a lot of mathematics yourself. However, I do expect you to come to class and participate actively in class discussions. If you must miss a class, I expect

you to find out what happened, either from your instructor or one of your classmates. You are responsible for everything that goes on in class.

Homework: As the name suggests, homework is work to be done outside of class. We will not devote much class time to discussing homework problems. Please feel free to see your instructor or any of the other instructors to obtain assistance; their office hours are posted online. You are encouraged to work with other students on the homework. It would be a mistake to skip the homework, because no skill (in mathematics, foreign language, athletics, and so on) can be learned by passive involvement, but only by regular practice.

Resourses: The Q-Center offers peer tutoring services at the main center in the CUE Building as well as some of the Dorm Communities. Please avail yourself of their services – they are there to help!

Graded Work: The exams are tentatively scheduled for Tuesday, February 14 and Thursday, March 30 during class. The final exam will be on Wednesday, May 3 at 10:30 am will be comprehensive (room to be announced). There will be quizzes scattered throughout the semester (generally every week there's not an exam). All quizzes and exams will be closed notes and closed book. There will be **no makeup's** for missed work; an unexcused absence will be given a grade of 0, and an excused absence (and there are very few reasons for excusing a missed exam) may be replaced by the corresponding section of the final exam. The instructor or coordinator should be notified before missing any exam or quiz if at all possible and immediately thereafter when not possible. The coordinator will determine if the absence from an exam will be excused. The contact information for all instructors can be found on the class home page , the department's general number is 860-486-3932.

There will be a curve used at the end of the semester in determining grades. To account for differences in the quizzes, homework and worksheets given in different sections, the curve will be based on the two

midsemester exams and the final exam. Using the weighted average of these, a curve will be determined – this curve will be influenced mostly by the coordinator's expectation of your performance as well as the class' performance as a whole. This curve will be used to determine the number of A's, B's, C's, etc that each section will be allotted. The quizzes will then be averaged in and the resulting grades will be assigned letter grades according to the allotment for that section. Thus, the 10% of the grade coming from the quizzes, homework and worksheets assigned in your section will affect only your standing in your particular section, but will not effect the allotment of A's, B's, C's etc for your section.

Calculators are more than welcome; indeed, they are necessary for some of the work. The following policy holds for any calculator used on any graded work.

Calculators: We will be making frequent use of the TI-83 graphing calculator in class. You will need to bring a TI graphing calculator (either 82,83,85 or 86) to class each time. You will be able to use and for some questions, you will need to use, your calculator on the exams, quizzes and the final. If you already have another graphing calculator, see me to see if you can use it in this class.

Departmental Calculator Policy: Calculators that can perform symbolic operations or store symbolic formulas (such as the HP 28 or 48 or TI-92 or 89) are **not** allowed, even if all programs are erased before the exam begins. If you bring a calculator to the exam, make sure it does not do alphanumeric manipulation. The instructor may randomly ask for calculators and check programs stored in memory. No alphanumeric formulas stored as programs are allowable. Discovery of such material will result in confiscation of the exam paper of the person using that calculator, and assignment of a grade of 0 for the exam.

Course Policy on Academic Integrity: A fundamental tenet of all educational institutions is academic honesty; academic work depends

upon respect for and acknowledgment of the work and ideas of others. Misrepresenting someone else's work as one's own is a serious offense in any academic setting and it will not be condoned.

Academic misconduct includes, but is not limited to, providing or receiving assistance in a manner not authorized by the instructor in the creation of work to be submitted for academic evaluation (e.g. papers, projects, examinations and assessments - whether online or in class); presenting, as one's own, the ideas, words or calculations of another for academic evaluation; doing unauthorized academic work for which another person will receive credit or be evaluated; using unauthorized aids in preparing work for evaluation (e.g. unauthorized formula sheets, unauthorized calculators, **unauthorized programs or formulas loaded into your calculator**, etc.); and presenting the same or substantially the same papers or projects in two or more courses without the explicit permission of the instructors involved.

A student who knowingly assists another student in committing an act of academic misconduct shall be equally accountable for the violation, and shall be subject to the sanctions and other remedies described in The Student Code.

Sanctions shall include, but are not limited to, a letter sent to the Dean of Students of the University; a grade of 0 on the assignment, quiz or exam; a grade of F for the course.

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Homework Assignments

Section	Suggested Exercises
1.1	18/ 1,3,5,7,11-31 odd, 35,37,43-55 odd, 65,77,96,98
A6	636/ 2,4,10,12,26,31,36,42
A7	650/ 2,6,19,23
1.2	41/ 1,3,5,7,13,17,19,31,33,35,37,39,40
1.4	75/ 1,3,9,15,17,19,21,23,25,31
1.3	67/ 1,3,5,9-39 odd, 43,45,47,55,57,59,61,65
1.5	89/ 1-43 odd, 49,53,55,57
3.1	157/ 1-6,9,11,13,15,17,21,23,27,29,31,33,35,39,43,47,49
3.2	179/ 1,3,9,11,13,19,23,27,33,35,39
3.3	198/ 3,5,9,13(3,5),17,19,21,23,27-32,36,37,39,43
3.4	211/ 1,3,5,7,9,11,25,27,29
Feb. 14	Exam 1
4.1	239/ 1,3,5,9,11,15,21,23,27,35,37,39,43,45,55,61,63,65,67,71,73,75
4.2	251/ 3,5,9,11,17,21,23,25,27,33,35
4.3	262/ 1,3,9,11,13,19,27,29,33
4.4	271/ 1,3,5,7,9,15,17,21,31,33,35,39,43,47,53,55,57,61
	plus additional homework posted online
4.5	283/ 1,7,11,13,15,17,21
5.1	307/ 9,11,15,21,23,25,29,35,51
5.2	323/ 1,3,7,9,13-31 odd, 41,45,49,51,78,80,81
5.3	339/ 1,3,5,9,11,17
5.4	347/1,3,11,13,17,29,35
5.5	356/ 1-17 odd, 29
5.6	367/ 1,3,5,7,9,13,15
5.8	385/ 1,3,5,9,13,15,17,21,23,37,39,43

Mar. 30	Exam 2
6.1	406/ 1,3,5,7,11,15,21,25,29,31,35,39,43,45
6.2	414/ 1,3,5,9,11,13,21,25,27,37,39
6.3	429/ 3,4,5,9,17,19,21
6.4	444/ 13,15,17,23,25,27,29,37,43,47
6.5	457/ 1,3,5,9,13,15,17,19,21,23,35,37,39,41,64
7.2	498/ 1,5,9,11,15,19,21,23
6.6	469/ 1,5,9,11,15,19,23,25,31,33,35,41,55,59,61
6.7	481/ 1,5,7,9,13,15,17,21,23,25
7.4	517/ 1,3,7,10,13,31,33,37
May 3	Final Exam

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