Syllabus

Math 116Q Section 5
Fall 2007

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Office Hours: Monday 11-12, Tuesday 9:30-10:30, Wednesday 1-2.
Website: http://www.math.uconn.edu/~olevin/math116f07/
Textbook: *Calculus*, Hughes-Hallett, Gleason, McCallum, et al., 4th ed., Wiley.

Welcome to what promises to be a very exciting semester of Calculus 2! I'm sure you are all very eager to get started, but please take a minute to look over this syllabus. It contains important information about all sorts of stuff. If you have any questions, please don't hesitate to ask.

Exams: There will be two midterm exams, a gateway exam, and a cumulative final. The midterm exams will take place in the **evenings** (not in class) from 6-8pm in room ITE C80 on the following dates:

Exam 1: Tuesday, October 2, 6:00 to 8:00 pm.
Exam 2: Tuesday, November 6, 6:00 to 8:00 pm.

The gateway exam will first be given in class on October 8th. There will then be an open period of 3 weeks (October 9th to 30th) during which the gateway exam may be repeated (as often as needed) in the Mathematics Mac Lab (MSB 203). To pass the gateway exam, you must receive 70% without partial credit. Failure to pass the gateway exam will result in your final grade being lowered by a full letter. Calculators are NOT allowed on the exam.

Homework: Homework will be assigned for each class period, as listed on the course webpage. Each assignment will have some problems for you to do as practice, which you can check online using e-Grade, and some problems that you will need to turn in to be graded. All three homework assignments for each week will be collected together the following Tuesday. You are also expected to read each section before it is discussed in class.

Quizzes: A short (15-20 minute) quiz will be given once a week. The quizzes will be announced ahead of time and will cover material from the lectures, the textbook and the ungraded homework exercises.

Projects Group projects will be given sporadically throughout the semester. There are intended to be worked on in groups of 3 or 4 people, but everyone should turn in their own copy to be graded. Sometimes, it will be necessary to complete the project outside of class, and you should make all effort to do so with your entire group.

Grading: Your final grade will be calculated as follows:

Homework, Quizzes, and Projects:	15%
Exam 1:	25%
Exam 2:	25%
Final Exam:	35%

(Note, failure to pass the Gateway Exam will lower your course grade by one letter grade.)

Makeup Policy: In general, missed quizzes and exams may not be made up, and homework will not be accepted late. Exceptions will be made only in *very* extreme cases. Please contact me well in advance whenever possible if you need me to consider such an exception.

Classroom Policies: Please be considerate of your fellow classmates and do not act in a disruptive manor. Turn off your cell phones and mp3 players before coming to class, arrive on time, and do not pack up your things before the end of class. If you need to leave the room for any reason (like using the restroom) please do so as quietly as possible.

Academic Integrity: Don't cheat! Any infraction on graded work will result in a 0 for that assignment, quiz, or exam, possibly an "F" for the course, and a letter sent to the Dean of Students. If you are not sure what counts as cheating, please refer to the Student Code. When in doubt, don't do it!

Suggestions for a Successful Semester:

- Think critically! Don't believe something just because I tell you that it's true. Always ask yourself if you have good reason to believe it.
- Read each section before I talk about it in class. Doing so will make it easier to take notes and help you identify the questions you should ask.
- Do all the assigned homework, and if you have time, some problems that were not.
- A terrific way to learn math is to work with other students in the class, and I encourage you to do so. However, if a friend shows you how to do a homework problem, it is a good idea to find a similar problem to try on your own. Remember, you won't have that friend come test time.
- Always wash your hands thoroughly after handling raw chicken or other poultry.
- Bring your copy of the textbook to class. As time permits, we will discuss homework problems, so being able to look in the book will be helpful. Also, bring your graphing calculator. (TI83 recommended, but others work too). And paper and pencil.
- If you need help, come see me in my office during the hours listed above or make an appointment with me for some other time.
- Extra help is available at the Q-Center in the Library.
- Most importantly, if you don't understand something: ASK!

Tentative Schedule:

Date	Section	Topic
08/27/07	Chapter 5	Review
08/28/07	6.1, 6.2	Antiderivatives graphically,numerically, and analytically (review)
08/30/07	6.3	Differential Equations
09/03/07	No Class	Labor Day
09/04/07	6.4	The Second Fundamental Theorem of Calculus
09/06/07	7.1	Integration by Substitution
09/10/07	7.2	Integration by Parts
09/11/07	7.4	Algebraic Identities
09/13/07	7.4	Trigonometric Substitution
09/17/07	7.5	Approximating definite integrals
09/18/07	7.7	Improper integrals
09/20/07	7.8	Comparison tests for improper integrals
09/24/07	8.1	Areas and volumes
09/25/07	8.2	Applications to Geometry
09/27/07	4.8	Parametric Equations
10/01/07	—	Review Exam 1
10/02/07	—	Review Exam 1 (Exam 1 is on Oct. 2, 6-8 PM)
10/04/07	8.3	Area and arc length in polar coordinates
10/05/07		In class gateway exam
10/09/07	8.4	Density and center of mass
10/11/07	8.5	Applications to Physics
10/15/07	8.7	Distribution functions
10/16/07	8.8	Probability, mean and median
10/18/07	9.1	Geometric series
10/22/07	9.2	Convergence of sequences and series
10/23/07	9.3	Tests for convergence
10/25/07	9.4	Tests for convergence
10/29/07	9.5	Power Series and interval of convergence
10/30/07	10.1	Taylor polynomials
11/01/07	10.2	Taylor series
11/05/07	—	Review for Exam 2
11/06/07	—	Review for Exam 2 (Exam 2 is on Nov. 6, 6-8 PM)
11/08/07	10.3	Finding and using Taylor series
11/12/07	10.4	The error in Taylor polynomial approximations
11/13/07	11.1	What is a differential equation?
11/15/07	11.4	Separation of variables
11/19/07	No Class	Thanksgiving
11/20/07	No Class	Thanksgiving
11/22/07	No Class	Thanksgiving
11/26/07	11.5	Growth and decay
11/27/07	Appendix B	Polar coordinates, Complex Numbers
11/29/07	Appendix B	Polar coordinates, Complex Numbers
12/03/07	—	Review for final exam
12/04/07	—	Review for final exam
12/06/07	—	Review for final exam

First homework assignments:

Section	Exercises (not collected)	Problems (graded)	Due Date
Review (page 272)	5,6,11,15,18,26,32	22,29,38,46	9/4
Section 6.1	7,8	10,12,15,19	9/4
Section 6.2	17,25,30,38,44,48,57,65,70	74,80	9/4
Section 6.3	3,6,7,9	10,14,18,20	9/4
Section 6.4	1,3,9,10	16,18,24,26,31	9/11
Section 7.1	3,10,21,25,27,34,42,48,56,64	76,80,83,86,87	9/11