Math 113/EGR 199
Fall 2008 Syllabus

General Information

Web page: A web page for this course is at http://www.math.uky.edu/~ma113. Any handouts will be available at this address. Solutions to exams and written assignments will be posted at this website.

Schedule: For most sections, lectures take place MWF and recitations take place TR. There will be three midterm exams and one final exam, on the following dates:

- Exam 1: Tuesday, September 23, 7:30-9:30 PM, Room TBA
- Exam 2: Tuesday, October 21, 7:30-9:30 PM, Room TBA
- Exam 3: Tuesday, November 18, 7:30-9:30 PM, Room TBA
- Final Exam: Thursday, December 18, 6:00-8:00 PM, Room TBA

Textbook: The textbook for this course will be Calculus (Early Transcendentals), 6th edition, by James Stewart, ISBN 978-0-495-01166-8 or 0-495-01166-5

Material to be covered: In Calculus I, we will learn about derivatives, integrals, and the Fundamental Theorem of Calculus that relates these two basic operations on functions. We'll begin by introducing the notion of limit which is essential to defining derivatives and integrals. By the end of the semester, students should know precise definitions of the derivative and integral, understand some of their important applications, and understand the Fundamental Theorem of Calculus which relates the two. We will cover most of Chapters 1 to 5 of Stewart. Please see the course calendar for a detailed listing of sections.

MA193: In addition, to the 4 hours of credit for MA113, the department offers one additional hour of credit as MA193 on a pass/fail basis. You will pass MA193 if you have 0, 1 or 2 unexcused absences and you pass MA113. If you have three or more unexcused absences or you fail MA 113, you will fail MA193. Your section number for MA193 should equal your section number for MA113 (except for MA 113 021 which is paired with MA 193 027). If you drop or change sections of MA113, please make sure to also drop or change sections of MA193.

Calculators: Students may use a graphing calculator on exams and homework. Students may not use a machine with symbolic manipulation capabilities on exams. Thus, no TI-89’s, TI-92’s, no HP-48’s or laptop computers may be used on exams. Please see the lecturer if you have any questions as to whether a particular machine may be used on a test. We may clear the memory of calculators before or during an examination.

Cheating: Students are encouraged to work together to understand homework problems and develop a solution. However, the solution they submit for credit must be their own
work. However, each student should write their final solution independently. Students should not permit others to use their account at www.mathclass.org. Copying on exams is not allowed. Students may not use books or notes during examinations.

Grading

Your grade will be computed as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
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<tbody>
<tr>
<td>3 exams</td>
<td>300</td>
</tr>
<tr>
<td>Final exam</td>
<td>100</td>
</tr>
<tr>
<td>Homework and attendance</td>
<td>100</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>500</strong></td>
</tr>
</tbody>
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Students need an average of 90% (450 points) for an A, 80% (400 points) for a B, 70% (350 points) for a C and 60% (300 points) for a D. Grades may be curved by adding a few points to each student's course total.

Exams: There will be three exams and a final. These exams are scheduled in the evening as indicated in the course calendar. Please be sure that you have these dates free. The final exam will be cumulative, but with an emphasis on the material covered since the third exam.

Homework and Attendance: Your homework and attendance grade is based on three components: the web homework (95 points), the written assignments (60 points) and attendance in lecture (45 points). Your web homework grade is the minimum of 95 and your percentage score on web homework. You may find this score at www.mathclass.org by clicking homework scores on the main page. Each written assignment will be worth 10 points for a total of 60. Lecturers will take attendance 11 times in lecture. Students will earn 5 points for each time they are marked present, up to a maximum of 45. Thus, two unexcused absences are allowed. The total number of points is 200 which will be divided by 2 to obtain a homework score of between 0 and 100.

Web Homework: The bulk of homework for this course will be completed using the web-based homework system at http://www.mathclass.org. At this web site, students will find homework assignments which will count towards your grade. The graded assignments are A1–7, B1–9, C1–8 and D1–4. See the next section for detailed information on how to access the web-based homework system.

There are several web homework assignments that will not be counted towards your grade. The review assignments AR, BR, CR and DR are study guides for each exam. All students should complete these review assignments. The optional assignment A0 is intended to introduce students to the syntax needed to enter mathematical expressions in the web homework system.
We recommend the following approach to web-based homework assignments:

- Start to work on the assignment as soon as the corresponding material is discussed in class.
- Print out copies of your personal and common assignments (it is free in the Mathskeller and the assistants there can help you), and put them in your notebook.
- Get together with classmates to work on the problems using the printouts. However, please write up and enter the solutions completely on your own.
- Write down the solutions in your notebook and then enter your solutions on the webpage. Only correct solutions to your personal version of the homework will count toward your homework grade! Note that for each web-based homework problem you may resubmit your answer as often as you wish before the due date. Only your final answer will be counted toward your homework grade.
- Bring your notebook with you when you go to office hours.
- Bring copies of the common problems to your recitation. They will be discussed there.

Written Assignments: In order to help you learn to write mathematics and present clear, well-written solutions to problems, there will be six written assignments. Your solutions to these assignments are expected to be carefully written in complete sentences and grammatically correct English. You should give clear reasoning and present the steps of your solution in logical order.

Late homework: No late submissions of web homework will be accepted. If an emergency or illness takes you away from school, please meet with your lecturer to discuss your situation and ask to be excused from an assignment, if appropriate. If you have a scheduled absence (travel or authorized university absence) you must still submit the web homework by the deadline. Written assignments are due at the beginning of lecture. If an emergency or unexpected absence prevents you from turning in the assignment, please see your lecturer to request permission to turn in the assignment late. If you have a scheduled absence (travel or authorized university absence) you should arrange to turn in your paper before leaving school. Unexcused and late submissions will be penalized 10% if the paper is turned in late on the due date and an additional 20% for each day that it is late.

Absences: You should attend class. If you must miss a recitation and are registered for MA193, you must explain your absence to your teaching assistant. Otherwise, your absence will be marked as unexcused and this may lead to failing MA193. Attendance will be taken in lecture. If you miss lecture, please speak with your lecturer to see if an absence can be excused.
Accessing Web Homework on mathclass.org

Students who have pre-registered for MA 113 will have an account at www.mathclass.org. **Please do not create your own account.** There are three methods to log into your account:

1. **Active Directory Login (preferred):** Use your UK Active Directory user name and password. This is also the user name and password that are used to access some other systems including myuk.uky.edu and exchange.uky.edu. This, is your user name is skova01, you will enter ad\skova01 as the user name and then the password for your Active Directory account. Note that mathclass.org will require you to use the prefix ad\ while other sites on campus may not. Students in the Medical Center domain should use the prefix mc\.

2. **Student ID and mathclass.org password:** Students may also log into their account at mathclass.org using their eight-digit student identification number as a user name and a password that is local to mathclass.org. The initial password will be u$654321 where 645321 are the last six digits of your student identification number. The student identification cards have a nine-digit number that always begins with a 9. The student identification number that we use consists of the eight digits that appear after the “9”. Most of the eight-digit student identification numbers will begin with a “1.”

3. **E-mail address:** You may also use the e-mail address for your account as a user name. To find this address, visit the link Don’t know which User Name or e-mail to use? this link will allow you to look up your Active Directory user name.

**Warning:** You may have a different password for each login method. However, all methods give you access to the same account.

**Account Help:** If you have difficulty logging in, you may visit Mathskeller (CB 065) M–F from 9am–4pm. There will be extra staff on hand at the Mathskeller to help with mathclass.org accounts on Thursday August 28, Friday August 29, and Tuesday September 2.

Students who registered near the beginning of the semester may not have an account. Their account will be created automatically within one day of registering for the course. Students who are having difficulty with accounts should speak with their instructor or use the help link at www.mathclass.org.

Students who choose to drop MA 113 must drop through the registrar’s office. Dropping your registration at www.mathclass.org will have no effect on your official registration. Students who switch sections of MA 113 during add-drop will have their registration at www.mathclass.org updated automatically. When a student changes sections of MA 113 with the registrar’s office, the account and record of homework will be automatically transferred to the new section at www.mathclass.org.

Web homework problems will be discussed in recitation on Tuesday and Thursday (except in MathExcel sections) and submitted by 12 midnight on the dates indicated on the schedule. Students should attempt homework as soon as the corresponding material is
discussed in lecture. Students who wait till the due date to begin an assignment will likely not complete the work on time.

Each student will have an individual version of the homework. Students should plan to print out their assignment, complete the problems in a notebook, submit their answers and then rework problems or seek assistance for problems that were marked incorrect. Your instructors will want to see the progress you have made in order to provide assistance. In addition, there is a common version of each homework set. The problems from the common version will be discussed in recitation.

If you feel you have worked a problem correctly and the web homework system marks it incorrect, please contact Peter Perry (perry@ms.uky.edu).