Syllabus for MA 113, Sections 010–012
Calculus I
Fall 2001

Course:

Lecture: MWF 2:00–2:50, CB 204
Recitation 010: TR 8:00–9:15, CB 347
Recitation 011: TR 9:30–10:45, FB 213
Recitation 012: TR 2:00-3:15, CB347

Lecturer: Carl Lee

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Office Hours:	MWF 1:00–1:50, and by appointment

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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 or fail MA193 according as you pass or fail MA113. Your section number for MA193 should equal your section number for MA113. If you drop or change sections of MA113, please make sure to also drop or change sections of MA193. MA193 is required for all students in MathExcel, and highly recommended (though not required) for the remainder of the MA113 students. Of course, you are expected to attend all lectures and recitations for MA113 whether or not you choose to enroll in MA193.

Prerequisites: Math ACTE score of 26 or above, or MA 109 and MA 112, or MA 110, or consent of department.

Text: *Calculus*, James Stewart, Third Edition, ISBN 0-534-21798-2. **IMPORTANT:** Be sure you get the third edition, not a later one or an earlier one.

Material to be Covered: This is a first course in calculus. In the first semester we will learn about derivatives, integrals and the fundamental theorems of calculus, which give the connections between integrals and derivatives. We will begin by introducing the notion of a limit, which is essential to defining derivatives and integrals. By the end of the semester students should know precise definitions of these objects. We will also give an indication of the sorts of problems that can be solved using calculus and discuss the interpretations of the derivative as velocity or slope of a tangent line and the integral as area or distance traveled.

Homework and Quizzes: Homework will be assigned on a regular schedule. Late homework will not be accepted (unless it is the result of an officially excused absence). There will be occasional, possibly unannounced, quizzes, during the semester. Missed quizzes may not be made up (unless this is the result of an officially excused absence).

Exams: There will be three exams and a final. These exams are scheduled in the evening as indicated in the course calendar. The final exam will be cumulative, but with an emphasis on the material covered since the third test.

Final Exam: Thursday, December 13, 6:00–8:00 pm, room to be announced.

Grading:

Homework, Quizzes	150
Three One-Hour Exams	300
Final Exam	100
Total	550 points

A	495–550 points
B	440–494
C	385–439
D	330–384
E	0–329

The University of Kentucky *Bulletin* explains: Grade A represents exceptionally high achievement as a result of aptitude, effort, and intellectual initiative. Grade B represents a high achievement as a result of ability and effort. Grade C represents average achievement. Grade D represents the minimum passing grade. Grade E represents unsatisfactory performance and indicates failure in the course.

University Studies Program: MA113 is part of the University Studies Program. It fulfills the mathematics component of the Basic Skills requirement and the inference component. As such it has a writing component. Students will be encouraged to write coherently on exams and homework.

Working Together: It is ok to work together on homework. However, when it comes time for you to write up the solutions, I expect you to do this on your own, and it would be best for your own understanding if you put aside your notes from the discussions with your classmates and wrote up the solutions entirely from scratch. Working together on exams, of course, is expressly forbidden.

Calculator: 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, HP-48's or laptop computers may be used on exams. Please see the lecturer if you have any questions.

Absences: You are expected to attend every class. If you are not able to turn in a homework assignment, take a quiz, or take an exam because of an unexcused absence, you will not be able to turn the homework in late or take the quiz or exam. A University excuse from a scheduled class activity such as an exam must be presented in writing no later than two weeks prior to the date of the absence. An absence due to illness or family emergency may be excused, provided that you can supply acceptable written evidence if required, and that you notify the lecturer or the teaching assistant *as soon as possible.* Notification is almost always possible immediately upon occurrence of an emergency. If you're too sick to telephone, you can get a friend to do it. Failure to make such timely notification may result in denial of your request. For an explanation of valid excused absences, refer to U.K.'s *Student Rights and Responsibilities*, http://www.uky.edu/StudentAffairs/Code/part2.html.

Cheating: The University's *minimum penalty* for cheating or plagiarism is *a failure in the course.* Cheating or plagiarism can lead to expulsion from the university. See *Student Rights and Responsibilities*, http://www.uky.edu/StudentAffairs/Code/part2.html, for information on cheating, plagiarism, and penalties. It's not worth it, so don't do it.

Expectations: I expect that everyone will maintain a classroom conducive to learning. I like an informal atmosphere, but it must be orderly. Thus, everyone is expected to behave with basic politeness, civility, and respect for others. In particular, talking in class is ok if it's part of a class discussion or with me. Private communications are not, especially during quizzes and tests. Neither are reading extraneous materials, using electronic equipment, or sleeping.

Suggestions: Suggestions for improvement are welcome at any time. Any concern about the course should be brought first to my attention. Further recourse is available through the offices of the Department Ombud and the Department Chair, both accessible from the Main Office in 715 Patterson Office Tower.