

MA113 Calculus 1
Sections 029, 030, 031, and 032
Fall 2011

Instructor P. D. Hislop
Office: 753 POT
 257-5637 or hislop@ms.uky.edu

Teaching Assistants: **Section 029 & 032:** Mr. Hao Wang
 Office: 702 POT 257-6804; haowang@ms.uky.edu

Sections 030 & 031: Mr. Shu Gu
 Office: 722 POT 257-6807; gushu0329@uky.edu

Text: J. Steward: *Calculus, Sixth Edition*, University of Kentucky version

Class Meetings: MWF 12:00–12:50 PM BE 148

Recitation: Section 029: TR 9:30-10:45 MMRB 243
 Section 030: TR 11:00-12:15 CP 211
 Section 031: TR 12:30-1:45 CB 203
 Section 032: TR 2:00-3:15 DH 301

Office Hours: Hislop: MW 4-5 753POT; F 4-5 Mathskeller; and by appointment
 Mr. Wang : T 12:30-2:00 Mathskeller, and R 12:30-2:00 POT 702.
 Mr. Gu : MW 2-3 in 722 POT, F 2-3 Mathskeller

Grading Policy

This syllabus complements the information found on the main course webpage: <http://www.ms.uky.edu/ma113>.

There are 3 hour exams in the evening from 7:30–9:30 PM on 20 September, 18 October, and 15 November. The final Exam is on Monday, 14 December, 8:30–10:30 PM. The rooms are listed on the main course syllabus.

The Grading Policy is given on the Main Course Syllabus. In sections 029, 030, 031, and 032, we will follow exactly the grading policy on the main course syllabus. In particular, the 100 points for WHS homework, written assignments, and lecture attendance will be awarded as stated there.

The graded materials for the MA 113 course are: 3 hour exams, 1 final exam, WHS homework assignments, 6 written assignments,

and attendance in lecture to be taken 20 times during the semester. Graded material for MA 193 is attendance in the recitations (no more than two unexcused absences).

Course Content

The main topics of Calculus I include differentiation and integration. We will begin with a review of functions. It is essential that each student understand what a function is and also know about trigonometric functions, the exponential function, and the logarithm. We'll discuss limits, tangent lines, and continuity. We will then generalize from the notion of slope to the derivative. Various applications of the derivative will be given coming from physics and economics. We will then discuss the anti-derivative (the indefinite integral).

WHS, written assignments, and quizzes

It is essential that each student work as many problems as possible. There is a list of suggested problems on the syllabus. Work sheets and these problems will be discussed in the recitations. Approximately each week, there will be a short, 15 minute quiz in the recitations based on the homework. The date of the quizzes is on the main course calendar. The quiz solutions will be discussed and posted on the course web page, but not graded.

MA193

In conjunction with MA113, we offer the pass/fail course MA193 for one credit hour. This course is optional. If you want to enroll, you must enroll in the same section as you are enrolled in for MA113. *To receive a pass for MA193, you must pass MA113 and have no more than 2 unexcused absences from your recitation.* If you fail MA113 or have more than 2 unexcused absences from recitation, you will fail MA193.

Office Hours and the Mathskeller

The instructor and the two TAs will hold their office hours in their offices and also in the Mathskeller, located in the basement of the Classroom Building. This is a good place to go for help anytime. The schedule of tutors is posted there. Office hours are listed at the top of the first page.

Other Rules

1. Calculators are allowed for the exams and quizzes as specified on the Main Course Syllabus.
2. You are expected to take the exams as scheduled unless you have an excused absence. You must discuss this with the instructor before the exam, except in the case of a medical emergency.
3. All exams are closed book: no papers or books are allowed.
4. *Cheating in any form will not be tolerated.*