MATH 231 SECTION D8
CALCULUS & MATHEMATICA 2
SPRING 2012

Meeting: 11-11:50am
   Lab: 024 Illini Hall
   Classroom: 241 Altgeld Hall
Instructor: Ben Reiniger
   Office: 245 Altgeld Hall
   Email: reinige1@illinois.edu
   Website: `www.math.uiuc.edu/~reinige1`
Course Webpage: `learn.illinois.edu` (Moodle)
Office Hours: TBD
   You can also make an appointment to meet outside of ordinary office hours.
Classroom Assistants: Huibin Li and Joseph Isosaki

General Information: You have no textbook for this course; rather, we will use Wolfram's Mathematica software. You'll need to purchase the courseware (lessons) from the UIUC Webstore. You'll have access to the Mathematica software in our lab or in 239 Altgeld Hall when they are open, as well as in Grainger. You may also want to purchase a temporary license to use Mathematica on your personal machine, or even a permanent student version of Mathematica.

Most days we'll meet in the lab. This is your time to work through the Mathematica lessons (though you can also work outside of class on any machine with Mathematica). You are strongly encouraged to work in pairs. The class assistant(s) and I will be around to answer questions about the math and about the software.

Occasionally we may meet in the classroom. I won't do much lecturing even during these sessions. You should come with your own questions about the material and we'll discuss them as a class.

Grading: At the end of each Lesson you will submit a homework assigment. These problems will be similar to those in the Give It a Try file. They will be graded on two criteria:

- Content, i.e. correctness of the mathematical ideas.
- Style, i.e. the explanations of your work.

Explanations of your work are a vital part of this course. You should be writing (in beautiful English sentences) your reasons for doing what you are doing on each homework problem. You and your partner should submit one homework file via Moodle. Make sure you have both of your names at the top of the notebook. You are each expected to contribute fully to the homework. You are encouraged to collaborate in larger groups, but the actual writing of the homework solutions should be done in your pairs.

There will be several quizzes throughout the semester. We will have two exams during the semester as well as a final exam. The exam dates will be announced

during class, but they should be around March 5 and April 30. Some quizzes and all exams will be taken in the classroom without the aid of calculators, notes, or classmates. The questions on these quizzes/exams will be similar to those from the Literacy files.

Your course grade will be obtained roughly as follows:

- Homework: 40%
- Quizzes: 10%
- Exam 1: 15%
- Exam 2: 15%
- Final Exam: 20%

However, your course grade cannot exceed your exam average plus 10 percentage points. The assignment of letter grades will be no more strict than the standard 10 point scale.

Note that you can register for a section of Math 290, "Symbolic Computation Lab". If you choose to do so, your grade in that class is separate from your 231 grade. It will be determined based on your competence in manipulating Mathematica to do your calculations for you.

Feedback: You will have several opportunities during the semester to provide feedback on the C&M program and on this section in particular. Please make use of these opportunities, and have thoughtful comments ready. If, at any other time, you feel the need to comment on the way the course is going, you can talk to me directly, talk to the course assistant, or drop an anonymous note into my mailbox (located in 250 Altgeld).

I look forward to working with all of you this semester. Good luck!