

Math 154, Spring 2003: General Information

Textbook: James Stewart, *Calculus (Early Transcendentals)*, 4th edition, Brooks/Cole

The course: Math 154 is the *intensive version* of Math 152, Calculus for the Math and Physical Sciences. It covers the same material, taught at the same level, as Math 152, and shares a common final exam with Math 152. However, you attend 3 recitations per week in addition to the usual 2 lecture classes. The additional recitations provide you with more guided study and more experience with workshop problems than they would receive in Math 152. Although, the work load is higher than 152, you earn 6 credits for the course, and, more importantly, emerge with a strong understanding of the subject.

Course Web Site: <http://www.math.rutgers.edu/courses/153-154/154-s03>. You can link to this site by first following the “Course materials” link on the Math Department web site at <http://www.math.rutgers.edu>.

Lectures and recitations: There are **two class meetings** and **three recitations** every week. The recitations are on Monday, Tuesday, and Wednesday evenings, period 7. The Monday recitation will focus primarily on homework problems and a quiz on current material. The Tuesday and Wednesday recitations feature **workshops**. In the workshops, you will work on calculus problems in groups of three or four students under the direction of a graduate teaching assistant and an undergraduate peer mentor.

Graded Homework: You will be assigned selected workshop problems to write up carefully and hand in for grading. You will also be assigned selected textbook problems to hand in weekly. **Late homework or workshop writeups will NOT be accepted.** Workshop writeups are graded on both correctness and presentation. You will produce your writeups at home, individually, based on your group work in recitation. Use your expository writing skills, and remember to write in complete sentences. On the course web site you may find an example of a workshop writeup, showing the style and level of clarity you should aim for.

You do not need to write down the solutions of textbook problem homework with as much care. However, you should present your work clearly, so that the grader may determine that you solved the problem correctly or be able to indicate where you made mistakes.

Time in class: The main point of Math 154 is to offer you more class time. Therefore attendance of all class meetings and workshops is required. In particular, you will be responsible for any information given out in class or workshop, including changes of dates, homework assignments, etc.

Class preparation: For most of us, learning mathematics well requires lots of repetition. Therefore, you should read the text *before* coming to class. You don't need to understand it all or even very much, but at least get an idea of what is going on and what is new and difficult. Try following at least one worked example in the text or try one of the simpler problems. If you do this, class time will be much more valuable to you, because you can use it to reinforce and develop your understanding.

Course Grade: Here is how your cumulative grade will be calculated:

2 midterm exams at 100 points each = 200 points

Final Exam = 200 points

Workshop participation and write-ups = 100 points

Quizzes, homeworks, attendance = 100 points

Total = 600 points

Observe that workshop, quizzes and homework form a significant portion of your grade. You must do this work on time to get a good grade.

Exam Rules: As in 152-153, calculators are not permitted on exams. Formula sheets are provided, and you will be told in advance what those formula sheets contain.