

SOME OBSERVATIONS ABOUT CALCULUS.

- Work. Many students appear to find this course challenging. Please mark off time every day to spend working on problems. As a rule, you should expect to spend several hours per day working out of class on Calculus.
- Keep a notebook. Plan on working every problem listed on the course calendar. Keep the solutions in a notebook that you can refer to when you study for exams.
- Form a study group. You will find that often your fellow students are able to help you when you are stuck on a problem. If that is not the case, it is more fun to be stuck together than by yourself. Mathskeller and Young Library provide good places for your study group to meet.
- Ask questions. Occasionally, there will be problems that you are not able to solve. Leave a space in your notebook for these questions. Ask about these problems in your study group, in Mathskeller, in office hours, in recitation, in lecture or after lecture.
- Take notes. Much of what I say appears in the textbook. However, it is a good idea to write down what is discussed in class. This way you will have a record of what I view as particularly important. This record will be useful in preparing for examinations.
- Learn the main theorems. In this course, the emphasis is on calculation and solving problems. However, one should be able to follow mathematical arguments. At each step in solving a problem, ask yourself: Why? This will be particularly important when we study series.
- Learn the basic facts. You will need to be familiar with basic identities for trigonometric functions and the integrals 1-17 inside the back cover of the textbook.
- Write well. On homework, write in complete sentences and use mathematical symbols correctly. Don't write $0 = 1!$ (But it is true that $1 = 0!$.)

January 31, 2004