Not your old Math 151 ...

9/3/95

The novelties

Math 151, calculus for people who will really use the "stuff", has been given at Rutgers for quite a while and its conduct is surely part of student culture. Please advise former 151 students of these marked changes in the course:

- New text; required possession and use of a graphing calculator in class and on exams.
- Recitations lasting 80 minutes. The greater part of the recitations will be *workshops* where students will work together on what we hope are interesting, non-routine problems. This small-group work will be helped by a recitation instructor (an experienced graduate student studying for a doctorate in mathematics) and an undergraduate peer mentor (the peer mentors major in various fields and have been at Rutgers for varying amounts of time).
- Homework to be collected and graded. Our initial plans are to grade carefully one workshop problem per student per week (done by the lecturer and teaching assistant) and 3 to 4 textbook problems per student per week (done by the peer mentor). Late homework will *not* be accepted.

We encourage you to form study groups, to visit members of the instructional staff in office hours, to use the Learning Resource Center and the Math-Science Learning Center, and to make appropriate use of e-mail since Rutgers-New Brunswick is the totally disconnected campus of the State University of New Jersey, e.g., I will be teaching on three campuses (Douglass, College Avenue, and Busch) this semester. We've created a newsgroup, `ru.nb.math.class.151`, which we hope will become an useful part of the course.

All members of the instructional staff of Math 151 have volunteered for this course and are enthusiastic about it. The course means extra work for them compared to more traditional methods of instruction. We believe that the results will be worth it.

Time in class

You should attend the lectures. You will be told in the lectures what text problems should be handed in at the next workshop meeting. Graded textbook and workshop problems may be returned at the lectures, and handouts with important information may be given out at any lecture. In addition, two examinations and two computational tests will be given during the lectures.

You *must* attend the workshops. Attendance will be taken. Participation in the workshops, which meet once a week, will be a component of the workshop grade.The first few minutes of each workshop will be a discussion of some homework problems from the text, led by the recitation instructor. The remaining time will be spent in small-group work on a set of three or four problems that you probably have not seen before. The emphasis will be on problem-solving strategies and multi-step problems.

Grading

Various numbers will help determine your final grade in Math 151. Please note that standards for letter grades will be developed in common for all sections of Math 151 and Math 153, and that the final exam for all sections will be the same.

Each in-class exam @ 100 points each	=	200 points
The final exam	=	200 points
Workshop grade (substantially the write-ups)	=	100 points
Text problems	=	50 points
Total	=	550 points

There will be two short (20 minutes) *Computational Tests* as indicated on the syllabus. These quizzes will be graded pass/fail only (pass = 80% or better with no partial credit). *No* calculator or sheet of notes will be allowed for these quizzes. You may retake the quizzes during office hours if you don't pass the first time. If you don't pass both quizzes before the end of the term, your term grade will be lowered one step (so a B would be lowered to a C+, a C would be lowered to a D, and a D would be lowered to an F).

Exam rules

You may use your graphing calculator during the 80 minute in-class exams and the three hour final exam; you may also bring to these exams *one* sheet (8.5×11 inches or smaller) of prepared formulas, inspirational materials, etc. of your choosing. You may write on *both* sides! No books or additional notes will be allowed. Calculators with QWERTY keyboards will not be allowed on exams.

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