Accelerated Calculus I — Fall Term 2005

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This is an accelerated version of the standard three-term first year calculus sequence. In this version, we will cover this material in two terms.

The coverage for the two terms is the first 11 chapters of the Anton calculus text. Students will be able to take Calculus IV (multivariate calculus) at the completion of the two terms.

The target audience for this course is mathematics majors in their first year who have had exposure to calculus in high school. During the first week, I will conduct activities to access the mathematical backgrounds and strengths of the class.

The students in the class will be divided into groups of 3 or 4 to work through special problem sets during some of the class time as well as to do other activities.

It is very likely that the computer algebra system Maple will be used during the term. This software is available in the bookstore.

There will be two tests during the term and a final examination. There will also be numerous group work assignments. Suggested problems and more details about the grading will be distributed later this week and will be available on my home page.

The goal of the first term will be to finish at least the first 6 chapters of the text:
Functions, Limits and Continuity, The Derivative, Derivatives of Logarithmic, Exponential, and Inverse Trigonometric Functions, The Derivative in Graphing and Applications, Integration.