

Math 110, Spring 1999

Instructors: Gerard Misiolek and Bruce Williams

Office: CCMB 362 (Misiolek) and CCMB 236 (Williams)

Text: Chapters 9-11 and parts of chapter 14 of Hahn, *Basic Calculus: From Archimedes to Newton to its Role in Science*.

Examinations:

Quizzes: There will be one quiz every two weeks, usually consisting of two problems.

Midterm: Wednesday, March 3, (in class)

Final: Wednesday, May 6, 1:45 - 3:45 (place to be announced)

Note: The University Honor Code applies to all the above

Homework: There will be a problem set due every Friday with the final write up to be turned in on the following Monday. Some of the most difficult problems will be discussed on Friday and I will ask for volunteers to present solutions on the board. Such presentations will receive extra credit (depending on their quality).

Grades (Roughly): Final Exam 30%, Midterm 20%, Quizzes 30%, Homework 20%

Topics:

From Engineering: Basic facts about differentiation, a problem from de L'Hospital's Calculus text, basic facts about forces and tensions, the suspension bridge.

From Science: Basics about the exponential and logarithm functions, nuclear clocks and what they tell us, growth in biology.

From Engineering: Review of integration and graphing, work and energy, interior ballistics, the Springfield rifle.