Course: Math 110. Elementary Calculus in Basic Sciences, Spring 1996

Instructor: Alexander Hahn, Computer Center and Mathematics Building. Office 370

Text: Alexander J. Hahn, *Basic Calculus: From Archimedes to Newton to its Role in Science*. To appear with Springer Verlag, Summer 1997.
Currently available in note form.

Syllabus: Taken from Chapters 9 – 12.

1) From Engineering:
   The Suspension Bridge.
   Preliminaries: Basic facts about Differentiation.
   Forces and Tensions.
   A Problem from L'Hospital's Calculus Text.

2) From Science:
   i) Nuclear Clocks and What They Tell Us.
   ii) Growth in Biology.
   Preliminaries: Basics about the exponential and logarithm functions.

3) From Economics:
   The Calculus of Finance.
   Preliminaries: Interest and Inflation.