

Class Objectives

1. Strengthen Problem Solving Skills

In every math class I teach, my main emphasis is to help develop or improve students' skills for efficient solutions of quantitative problems.

2. Mastering Basic Calculus

Calculus is necessary for understanding the foundations of classical physics and other quantitative arenas. It is composed of two main topics: differentiation and integration; both are interrelated. The emphasis in this class will be on both computational and applied aspects of calculus. Theory will be stated and explained in order to assist the understanding of the techniques and their general ideas.

3. Applying the Material

I will emphasize applications of the concepts and techniques. To meet this end, I would encourage efficient use of scientific calculators, so that you develop good practical skills for applying calculus with calculators. We have added the project part of the course in order to give you an opportunity to solve "a real life problem" with calculus.

4. Foundations for Budding Engineers

Most of you major in the engineering sciences and I will thus cover and emphasize important issues which will serve you in your future engineering and physics courses.