

Class Objectives

1. Basics of Linear Algebra and Differential Equations

We will cover basic topics in linear algebra and differential equations that we find useful in applications. The emphasis in this class will be on both computational and applied aspects. However, various theoretical concepts will be explained and practiced in order to clearly understand the methodology in this area. I will emphasize important issues which will serve you in your future engineering and physics courses.

2. 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.

3. Applications

We will emphasize applications of the concepts and techniques.

4. Working with Matlab

You will get introduced to Matlab and its effective use in solving some relevant problems that cannot be handled by pen and paper.