Course Introduction

This is a standard introductory course treating Differential Equations (D.E.'s), mostly linear. These have applications to mathematical models for physics, electrical engineering, biology, etc, problems. Algebra and calculus techniques are heavily used, as well as some matrix analysis. We will study (most of) Chapters 1-7 in the text. Some topics:

1. First Order D.E.'s
2. Linear D.E.'s and Systems
3. Laplace Transform Method
4. Series Solutions
5. Boundary Value Problems
6. Numerical Methods

Grading

Two tests: 20% each
Homework, quizzes 30%
Final Exam: 30%

Homework

You will learn a great deal by doing homework problems. Usually they will be assigned on Thursday and due the following Thursday at the beginning of class. Late homeworks (within reason) will be accepted but not graded - you will receive an L (late) and the other homeworks will be averaged to determine your grade. Groups will be formed and only one homework turned in for each group.