

Course Syllabus for Mathematics 251

Title:

Differential Equations

Prerequisites:

Two semesters of calculus (through infinite series)

Course Content:

Most of the course is concerned with first and second order differential equations. Topics include separable, linear, and exact equations, constant coefficients, reduction of order and variation of constants. There is an introduction to higher order equations, and significant time is spent on power series methods for solving equations.

Course Goal:

By the end of the course, students should be able to recognize, classify and solve certain types of differential equations. Hopefully they will have also gained some understanding of the importance and usefulness of differential equations.

Text:

Differential Equations by Mark Krusemeyer, MacMillan College Publishing Company

Methods of Evaluation:

There is a weekly quiz, three one-hour tests, and a three hour final examination.

Office Hours

Dr. Howard is usually in his office from 4:00 pm to 5:00 pm each day and from 3 pm to 5:00 pm on Tuesday and Thursday. You may also see him by appointment. His phone number is 5539, and his email address is howard@wfu.edu.