First Course in Differential Equations (Math 383) - Spring 2014
Section 006: TR 8:00 - 9:15 AM, Phillips Hall 367

Instructor: Shilpa Khatri   Email: khatri@email.unc.edu
Office: Phillips Hall 314


Course Website: [http://www.unc.edu/~khatri/math383_spring2014/math383](http://www.unc.edu/~khatri/math383_spring2014/math383). There will always be a link from [http://www.unc.edu/~khatri](http://www.unc.edu/~khatri)

Prerequisites: Proficiency in Calculus (upto and including Math 233) and Algebra

Course Description: Math 383 is a first course in differential equations and linear algebra. The course topics include first and second order linear ordinary differential equations, some basic matrix algebra, systems of equations, some basic numerical approaches and an introduction to non-linear equations. In the text we will cover Chapters 1-4 and 7 and use ideas from Chapter 8-12 to supplement the information in those Chapters.

Homework Assignments: Homework will be assigned regularly from the textbook. No makeup or late homework will be accepted. Rather the lowest two homework grades will be dropped. Computer assignments will require using a computer which has some type of mathematical programming software installed. No makeup or late computer assignment will be accepted and these assignments cannot be dropped. Each assignment counts equally unless clearly stated otherwise.

Quizzes: Unannounced quizzes may be given during the semester. These will be short, usually including just one problem. These quizzes will allow you to gain bonus points on the two tests.

Tests: There will be two tests during the semester.
- Test 1: February 11
- Test 2: March 25

*Note that this is just a plan and the dates may change as the course evolves. I will attempt to notify you of any changes as early as possible.

Final: Tuesday April 29 at 8 AM

Problem Session: Mondays from 5:00 - 6:00 PM in Phillips 367

Office Hours: Tuesday from 11:00 AM - 12:00 PM and Thursdays from 5:00 PM - 6:00 PM
*If these times do not work for you, do not hesitate to email me and make appointments.

Grading:
- Homework Assignments Average: 20% (two lowest homework grades will be dropped)
- Each Test: 20% (lowest grade can be replaced by the final grade)
- Final: 40%

Honor Code: It is expected that each student in this class will conduct him or herself within the guidelines of the UNC Honor System. All academic work should be done with the high level of honesty and integrity that this University demands.