Course Info:
MATH 383 - Linear Algebra and Differential Equations
Fall 2010 - Section 05

Time/Place:
MWF: 9:00 AM - 9:50 AM, Phillips Hall 381

Instructor:
Jeremy Louis Marzuola

Contact Info:
E-mail: marzuola@math.unc.edu
Office: Room 324-D Phillips Hall
Office Hours: MW: 10:00 AM-11:30 AM

Teaching Assistant:
Benjamin Wilson

Contact Info:
E-mail: wilsonbn@email.unc.edu
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Office Hours: W: 11:30 AM-12:30 PM

Course Description:
The course will cover:

- Systems of linear equations, vectors and matrices, basis and independence.
- Introductory ordinary differential equations, systems of linear differential equations.
- Linear algebra will be introduced as needed.

Topics:
I. First Order Scalar ODE’s - Techniques and Models
II. Second Order ODE’s - Techniques and Models
III. Linear Algebra - Vector Spaces, Linear Systems, Matrices, Eigenvalues
IV. Systems of ODE’s - Techniques and Models
V. Nonlinear Applications (Time Permitting)
Prerequisites:
The course requires Math 233 or the equivalent.

Recommended Course Texts:

Grading:
The course will be graded on biweekly homework assignments (25%), two midterm exams (20% each) and a final exam (35%).

Homework Assignments:
The homework assignments will be due every other Friday, beginning September 10th, 2010. No late homework assignments will be accepted but the lowest homework score from the semester will be dropped. Though I encourage communication on the homework assignments, each student should write up the assignment on their own.

Exams:
The midterm exams will be in class on October 1st, 2010 and November 5th, 2010. The final exam will occur at the standard schedule time according to the University Registrar Schedule, which is Saturday, December 11, 2010 at 8:00 AM.

Honor Code Statement and Course Policies:
It is expected that each student will conduct themselves within the guidelines of the UNC Honor System. Upon entering class, all cell phones should be turned off and put away. Exams will be closed book and without calculators. Please put all cell phones and calculators away before coming to class for any exam.

Make-up and Absentee Policy:
Attendance at every class is strongly encouraged. No make-ups will be given for homework assignments. Missed in-class exams can be made up only if a written medical/coach excuse is provided showing you were unable to attend. No changes are permitted for the final exam without appeal to the Dean.