Course Info:
MATH 751 - Introduction to Partial Differential Equations
Fall 2011 - Section 001

Time/Place:
TuTh: 12:30 PM - 1:45 PM, Phillips Hall 301

Instructor:
Jeremy Louis Marzuola

Contact Info:
E-mail: marzuola@math.unc.edu
Office: Room 324-D Phillips Hall
Office Hours: TuTh: 3:30 PM - 5:00 PM

Course Topics:
The course will cover:

- An Introduction to Nonlinear PDE methods.
- Transform Methods.
- Sobolev Spaces and Weak Solutions.
- General Elliptic and Evolution Equations as time permits.

Prerequisites:
A strong foundation in ODE theory, complex analysis and functional analysis is recommended.

Recommended Course Texts:
Grading:
The course will be graded on 5 homework assignments (50%) assigned at regular intervals throughout the semester, an individual project (25%) and a take home final exam (25%).

Homework Assignments:
The homework assignments will be posted online and due at regular intervals throughout the semester. No late homework assignments will be accepted but plenty of time will be given to complete each assignment. Though I encourage communication on the homework assignments, each student should write up the assignment on their own.

Projects:
The project will be on a topic chosen by the student and comprises a significant portion of the grade. The idea will be to write an expository report briefly describing an important area of modern research related to a topic in the course. I suggest coming to talk to me early in the semester regarding possible topics of exploration. The projects will be due the last day of classes, which is Tuesday, December 6th, 2011. No late projects will be accepted.

Final Exam:
The final exam will be issued December 6th, 2011 and due at the standard schedule time according to the University Registrar Schedule, which is Thursday, December 15th, 2011 at 12:00 PM.

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.

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.