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Course 2 (Spring 2015) MAP6357 Partial Differential Equations 2 /Section 17D3

Time and Location

M W F3, Little 217

Office Hour: MHF 12:30-1:30pm.

Description and Goals

Credits: 3; Real Analysis and PDE 1.

This course is a continuation of PDE1(MAP6356). Some important topics will be covered: Theory of Sobolev Spaces, Regularity for Elliptic equations, Calculus of Variations, Functions of bounded variations, etc. If time permits, some of the topics will be discussed in more depth.

Textbook:

Partial Differential Equations, L.C.Evans, Graduate Studies in Mathematics, Vol.19, AMS

Homework

Homework will be assigned after each lecture. I will collect the homework from time to time.

Course schedule:

Chapter 6: Second order Elliptic Equations.

Chapter 7: Linear Evolution Equations.

Chapter 8: The Calculus of Variations.

Chapter 9: Non-variational Techniques.

Final Grades

Exam one (mid-term) Feb 9 (25%)

Exam two (mid-term) March 23 (25%)

Homework –15%

Final exam – Take home- (35%)

Grading Scale

A: 85+ or above; B+: 75-84; B: 70-74; C+: 65-69; C: 60-64; D: 50-59; E: 0-49.

Attendance and Late Policy

ABSOLUTELY NO MAKEUPS WITHOUT MEDICAL DOCUMENTATION. Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at :

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

Students that need accommodation

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Information on current UF grading policies for assigning grade points:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Information on course evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

