



M W F3 (9:35-10:25am), Little 221

Office Hour: MHF 12:45-2pm.

Credits: 3; Real Analysis

This course intends to teach some fundamental subjects of partial differential equations, based on the textbook of Evans. Topics include representation formula for four types of PDEs, Sobolev Spaces and some nonlinear first order equations.

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

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

Chapter 2: Four important linear PDE

Chapter 5: Sobolev Spaces

Chapter 3: Nonlinear First Order PDE

Exam one (mid-term) Oct 2 (25%)

Exam two (mid-term) Nov 13 (25%)

Homework –15%

Final exam December 13 (Wed) 3-5pm- (35%)

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

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 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.

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

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/>.

