Partial Differential Equations II, Math 6342
Spring Semester 2012

Instructor: Andrzej Swiech

Lectures: MW 4:35-5:55 pm, Skiles 254

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Textbook: Lawrence C. Evans, *Partial Differential Equations*, 2nd edition, Graduate Studies in Mathematics, AMS, 2010.

Course Description: The course focuses on the theory of linear, second-order partial differential equations. We plan to cover Sobolev spaces, basic functional analysis, linear elliptic equations, linear parabolic and hyperbolic equations, semigroups. If time allows some additional topics of nonlinear theory will be discussed.

Grading: There will be three homework assignments and the final exam. The homework will count for 60% of the final score and the final exam for 40%. To get an A, respectively B,C, and D, your final score (scaled to 100%) will have to be greater than 85%, respectively 70%, 55%, and 40%.

Please be aware of the Georgia Tech Honor Code and follow it carefully. In particular please make sure that all the work you submit is your own.