Numerical Solution of Partial Differential Equations
MATH 582, Spring 2005

Section: MWF, 9AM, 1-116 Wilson Hall
Instructor: Dr. Lisa G. Stanley, `stanley@math.montana.edu`
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URL: http://www.math.montana.edu/∼stanley
Office Hours: Mon.- 1:10pm, Tues.- 9:30am, Thurs.- 9:30am and 1:10pm (others by appt.)
Textbook: *Finite Element Solution of Boundary Value Problems* by Axelsson & Barker
Supplemental Texts: Students are not required to purchase the supplemental texts, and detailed notes will be given when the material is taken from these selections.

- *Numerical Analysis of Partial Differential Equations,* by C.A. Hall and T.A. Porsching (*This one is on RESERVE in the MSU library.*)
- *Numerical Solution of Partial Differential Equations by the Finite Element Method,* by C. Johnson (*This one is in the math dept. library, so feel free to check it out for BRIEF PERIODS.*)

Prerequisites: Math 441, 442, 581

Grading: There will be two tests consisting of a midterm and a final exam. Homework will be assigned and collected as a unit. The tests will be 50 % of your grade, and the homeworks will count as 50 % of your grade. I strongly suggest that you keep a folder consisting of class notes and completed homework assignments. I also strongly suggest that study groups be used as a mechanism for learning as well as for sharing ideas and knowledge. However, all work that is submitted to me is assumed to reflect the best understanding of the student preparing the work.

Make-ups: No make-up tests will be given. If you miss a test due to a documented illness, family emergency or other extreme circumstance, the weight of your remaining grades will be adjusted to compensate provided I receive a written excuse within a *reasonable* amount of time after the missed test.

Final Exam: Thursday, May 5, 4:00-5:50pm

General: I reserve the option of modifying these policies where I see appropriate as the course develops.