Mathematics 462   Partial Differential Equations

Fall, 2004

Text: *Introduction to PDE with MATLAB*

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Office hours: Tuesday and Thursday, 1-3 and by appointment.

We will cover all or parts of chapters 1-6 and 8-9.

This section of the course will have an important computer component. The software package used will be MATLAB. There will be instruction on the needed MATLAB commands as we go along. An appendix in the text contains some elements of MATLAB. A good introductory manual is *Getting Started with MATLAB* by Rudra Patrap.

There will be weekly homework assignments, some of them involving computer work. Some of this homework will be handed in to be graded. There will also be a longer computer project due at the end of the semester.

Every three weeks, there will be a 1/2 hour exam based on the homework. The tentative dates for these exams are Sept. 13, Oct. 4, Oct. 25, Nov.15 and Dec. 6.

The final exam is Thursday, December 16, 1:30 - 3:30 pm.

The homework, exams, and project will be weighted as follows:

Ten homework assignments	10 points each	total 100
Five 1/2 hour exams	50 points each	total 250
Computer project	50 points	total 50
Final exam	200 points	total 200
Total		600

Your course average will be determined by dividing your course total by 600. Grades will be assigned on the usual scale of A: 90 -100, B: 80 - 89, etc.

Make up exams will be given only in the case of serious family or medical problems, or university sponsored activity, all of which must be well documented.