Syllabus

UTK – M535 – Partial Differential Equations I
Fall 2007, Jochen Denzler, MWF 11:15–12:05, Ayres 209A

Book(s): The official textbook for the course is Evans: Partial Differential Equations from the AMS (GSM#19). I will occasionally refer to other books and will offer a list later.

Course contents: Adapted to the prelim list. We’ll start out covering basically chapters 1-3.2, 3.4, and some of ch. 4 of Evans’ book in about this order, then add the deeper material required (which will already go into M536).

Exams: There will be one midterm exam, and a final during the official exam period.

Total grade: 3/9 homework, 2/9 midterm, 4/9 final.

Homework: Homework that is assigned for grading should usually be written up in a formally adequate and mathematically rigorous way. Some more open-ended and exploratory homework may be targeted at building and exploring ideas and would then be graded by a less formal standard.

Course Prerequisites: Students are expected to have knowledge of advanced calculus similar to our 447-448 course. Should difficulties in this respect arise during the semester, I will do my best to be helpful, but you need to take the initiative with questions. You may want to refer either to the 447-448 notes on Conrad Plaut’s website, or the Graphics Creations notes for this year’s 447-448, or to material from last year’s course. Since styles in Honors Advanced Calculus may differ a bit from year to year, feel free to ask me if you have adaption difficulties.

Math 435 is not a prerequisite for 535.

Office hours: I am posting regular office hours on my website, but am available for drop-in or appointments. You may call my cell phone 604-7173

Course Website: The course website is http://www.math.utk.edu/~denzler/M535-Fa2007/