

# UNIVERSITY of MISSOURI-ROLLA

DEPARTMENT of MATHEMATICS and STATISTICS



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## Mathematics 325 “Partial Differential Equations”, Fall 2004 (Aug 23 – Dec 10).

**Lecture:** Monday, Wednesday, and Friday (excluding Sep 6, Oct 1, Nov 24/26) in NOR-208 from 10:00 to 10:50 in the morning. The web site for this class is

“<http://www.umr.edu/~bohner/math325-04/math325.html>”.

**Office Hours:** Monday, Wednesday, and Friday in ROLLA-106 from 2 to 3 in the afternoon. Also by appointment. Appointments may be scheduled in person, by phone, or via e-mail.

**Text:** “Partial Differential Equations” by Walter A. Strauss.

**Description:** Chapters 1, 2, 4, 5, 6, 8, and some of the topics of Chapters 3 and 12 of the textbook, i.e., waves and diffusions, boundary value problems, Fourier series, harmonic functions, and computation of solutions.

**Homework Assignments:** There will be 11 weekly homework assignments. They are available in class (and as PDF Files on the lecture’s web site). On assignment due dates, either homework will be collected and selected problems will be graded, or a short quiz on one of the assigned problems will be written.

**Hour Exams:** There will be 3 exams during class. These exams will be announced at least one week in advance.

**Final Exam:** The final exam is comprehensive and will be on Tuesday, December 14 from 10:30 to 12:30 in the morning.

**Drop Policy:** According to Student Academic Regulations, pp. 17/21, a student may be dropped by the instructor because of excessive absences or unsatisfactory work. There is no transcript record if the drop is on or before October 5. In particular, a student will be dropped by October 5 if his/her class grade is 60% or lower or if he/she is absent 5 or more times.

**Grading Policy:** Each of the eleven homework assignments is worth 50 points, each of the three hour exams 80 points, and the final exam 210 points. Hence the emphasis on the final amount of points is weighted as follows:

Homework	Hour Exams	Final
55%	24%	21%

Altogether 1000 points are available. The accumulated scores may be found on the lecture’s web site (using a personal password). Note that these scores as well as estimated final grades are updated weekly. If  $p$  is the final (relative) amount of points, the final (estimated) grade will be determined according to the following table (as a final grade of “D” is not allowed for a graduate student, for them the level to pass is 650):

F	D	C	B	A
$p < 600$	$600 \leq p < 700$	$700 \leq p < 800$	$800 \leq p < 900$	$p \geq 900$