

Mathematics 647 – Spring 2001

Applied Partial Differential Equations

Line # 43262 – MWF 11:30–12:20 p.m. – Room 336 Snow

Instructor: Prof. Rodolfo H. Torres
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Tentative office hours: Mondays, 1:30–2:30 p.m.,
Wednesday, 9:30–10:30 a.m.,
and by appointment.

Textbook: *Partial Differential Equations*, by Walter Strauss
Wiley and Sons Inc., 1992. **(required)**.

Prerequisites: Math 320 or similar course in ordinary differential equations.
Familiarity with Mathematica, Maple, Matlab, or similar
computer programs will be of help.

Withdrawals:

- Jan. 16 – Feb. 19. The course is deleted from the student's record.
- Feb. 20 – Apr. 2 A grade of W goes on the student's record.
- Apr. 3 – May 7 Requires Instructor's signature in the drop form.

Final Exam: Friday, May 11, 11:30 a.m. - 2:30 p.m.

Course content: The main purpose of the course is to describe how to solve boundary and/or initial value problems for the most common partial differential equations appearing in the applied sciences. Several classical methods will be presented which are of mathematical interest in their own. The material is essentially contained in the first ten chapters of the text book.

Grading: Your grade will be based on the total number of points you will obtain and which will be distributed in the following way:

Homework and Projects	200 points
In-class Exam 1 and 2	200 points
Final Exam	200 points
Total	<hr/> 600 points

A total of 90% of the points will guarantee an A, 80% B, 70% C, and 60% D.