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

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 mathe-
matical 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:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework and Projects</td>
<td>200</td>
</tr>
<tr>
<td>In-class Exam 1 and 2</td>
<td>200</td>
</tr>
<tr>
<td>Final Exam</td>
<td>200</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>600</strong></td>
</tr>
</tbody>
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A total of 90% of the points will guarantee an A, 80% B, 70% C, and 60% D.