

SPRING 2009 - MATH 462
PARTIAL DIFFERENTIAL EQUATIONS FOR SCIENTISTS
AND ENGINEERS

Instructor: Sandra Cerrai

Office: Math Building, Room 2304

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Office Hours: Tu-Th 11.30am-12.30pm

Classes: Tu-Th 2.00pm-3.15pm

Location: Math B0423

Textbook: Walter Strauss, Partial Differential Equations - An Introduction (second edition), John Wiley and Sons, Ltd., 2008. x+454 pp. ISBN: 978-0-470-05456-7.

Prerequisites: MATH 241 and MATH 246.

Grading:

- Homework 20%
- Midterms 40%
- Final 40%

Dates:

- First Midterm, March 12
- Second Midterm, April 28
- Final, May 18, 10.30am-12.30pm

Homeworks: They will be assigned once a week. There will be given approximately ten homeworks during the semester from which only the best eight homeworks will count towards your grade.

- Homework 1. - 1.1: 3, 4, 7, 11 1.2: 3, 6, 7, 13 (due 02/10/09)
- Homework 2. - 1.3: 5, 6, 10 (due 02/17/09).
- Homework 3. - 2.1: 1, 3, 7, 9, 11 (due 02/26/09).
- Homework 4. - 2.3: 4, 6 2.4: 1, 16, 19 (due 03/10/09).
- Homework 5. - 3.1: 1, 2, 5 3.2: 5, 11, 10 3.3: 3 (due 03/24/09).
- Homework 6. - 3.4: 1, 2, 3, 13, 14 (due 04/02/09).
- Homework 7. - 4.1: 4 4.2: 1, 2, 4 (due 04/14/09).
- Homework 8. - 5.1: 2, 4, 9 (due 04/21/09).
- Homework 9. - 5.3: 3, 11, 5.4: 1, 2 (due 04/30/09).
- Homework 10. - 6.1: 2, 4, 11, 6.2: 1, 3 (due 05/12/09).