

Math 4363 Applied Boundary Value Problems I, Fall semester, 2007-08

Professor: QI, Yuanwei;

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TIME and ROOM of Lectures: MWF 1:30-2:20pm, MAP 406

Office Hours: MW 2:30–3:30pm, 6:30-7:20 pm, F: 2:30-3:30 pm or by appointment

Prerequisites:

CAL I-III, Differential Equations or CI.

Textbook:

Walter A. Strauss, 'Partial Differential Equations', 1st edition, John Wiley & Sons, Inc.

Grading Scale: A: 90-100 %, B: 80-89 % C: 70-79 % F: 0-69 %

Grading Policy:

1 Final exam 40%, 2 mid-term test 25 % each, attendance 10 %

Exams:

Midterm 1: Sep 21; Midterm 2: Oct 24; Final: Dec 10

ATTENDANCE: We check attendance. Absence from class for three or more times may result in deduction of grades up to 10 %

HOMEWORKS: Homeworks will be assigned at each class meeting, but **not collected**. The student is expected to attempt every problem before coming to class.

Makeup Policy: In case of documented absence due to religious holidays, family emergencies, illness or official university functions, the university policy for make-up tests, quizzes will be followed. Any other make-up is at the the discretion of the instructor.

In addition:

1. Final Exam: December 10, 1:30-3:50 pm
2. Add/Drop period is: Aug 22-24
3. Deadline for withdraw is: Oct 12
4. University holidays: Labor Day, Sep 3; Veteran's Day, Nov. 12; Thanksgiving, Nov 22-24

Students need disabilities accommodations must contact professor at the beginning of the course. No accommodation will be provided until the student meet with the professor to request accommodations. Students who need accommodations must be registered with Student Disability Services, Student Resources Center Room 132, phone: (407)-823-2371, TTY/TDD only phone: (407)-823-2116, before requesting accommodations from the professor.

Course Objectives:

The main purposes of the course are (i) to derive various differential equations from related physical models and (ii) to develop methods for obtaining analytical solutions of these equations as well as some qualitative properties of general solutions. It will cover first and second order linear equations.

Remark: This is a **tough course**, hence please **Work Hard**.