MATH 246E  SECTION 0501  (Spring 2002)
ORDINARY DIFFERENTIAL EQUATIONS
FOR SCIENTISTS AND ENGINEERS
MTH 0409  TuTh 12:30-1:45

Instructor
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Texts

Syllabus
§1. Introduction: 1-1-1.2 (1 lecture).
§2. First Order Differential Equations: 2.1-2.7 (5 lectures).
§3. Second Order Linear Equations: 3.1-3.8 (6 lectures).
§7. Systems of First Order Linear Equations: 7.1-7.8 (6 lectures).

Grading Policy
EXAM 1 (20%): March 12, §§1, 2, 8, 3.1-3.3; Matlab Sets B and C.
EXAM 2 (20%): May 2, §§3, 6, 7; Matlab Set D.
FINAL (30%): Thursday May 16, §§1, 2, 3, 6, 7, 8, 9.
QUIZZES (10%): There will be a 10/15 min quiz about every two weeks, unless stated
otherwise, which will cover the material developed in the previous three or four classes.
Quizzes will be (a slight modification of) homework problems.
MATLAB (15%): There will be four Matlab assignments (Problem Sets B, C, D, and F).
Students are encouraged to work in groups of three students but must hand in an individual
project report. These assignments are mandatory to pass this course. The Problem Set A,
which familiarizes students with Matlab, will be collected on Th Feb 7 but not graded.
It is the students’ responsibility to read §§1-4 of the Matlab book since this elementary
material will not be discussed in class but is necessary to solve Problem Set A. All students
should apply for WAM or GLUE computer accounts right away.
HOMEWORK (5%): Homeworks will be assigned each class. One problem will be collected
and graded per week.