**Math 246, Section 1301**

## Differential Equations for Scientists and Engineers

**Fall, 2001**

**Prerequisites** Math 141 (Calculus II) or equivalent.

**Textbooks**

1. *Elementary Differential Equations, Seventh edition*, by W. E. Boyce and R. C. DiPrima, John Wiley & Sons, Inc., 2001.
2. *Differential Equations with Matlab*, by Kevin R. Coombes, B. R. Hunt, R. L. Lipsman, J. E. Osborn, and G. J. Stuck, John Wiley & Sons, Inc., 2000.

**Lectures** MWF 2:00–2:50, Math 0103.

**Instructor** Bo Li (Office hours: W 3:00–4:00, Th 11:00–12:00; Office: Math 4304; Phone: 301-405-5088; E-mail: bli@math.umd.edu).

**Grader** Sunhee Kim (E-mail: sunny@math.umd.edu).

**Homework** Assigned regularly and graded partially. There are two types of homework: one is analytical and the other Matlab related. For an analytical type of homework, exercise problems are chosen from the first textbook *Elementary Differential Equations.* For a Matlab related homework, exercise problems are chosen from the second textbook *Differential Equations with Matlab. Note: no late homework will be accepted unless a written verification of a valid excuse (such as hospitalization, family emergency, religious observance, court appearance, etc.) is provided and approved by the instructor.*

**Exams** There will be two midterm and one final, close-book and close-note exams. The final exam will be cumulative.

Midterm exam 1: 2:00–2:50, Friday, October 5, Math 0103.
Midterm exam 2: 2:00–2:50, Friday, November 16, Math 0103.
Final exam: 1:30–3:30, Thursday, December 13.

*Note: neither rescheduled nor make-up exams will be allowed unless a written verification of a valid excuse (such as hospitalization, family emergency, religious observance, court appearance, etc.) is provided and approved by the instructor.*

**Grading** The final course grade will be determined based on the exams and homework with the following weights: final exam — 40%, midterm exam 1 — 20%, midterm exam 2 — 20%, homework of analytical type — 10%, homework related to Matlab — 10%. The final grade will be curved.