

MAT 314 — Differential Equations

Spring 2009

Professor: Dr. Bryan Dawson (x5268, bdawson@uu.edu, www.uu.edu/dept/math/Dawson/)

Course webpage: www.uu.edu/personal/bdawson/courses.htm

Text: Differential Equations with Boundary Value Problems, Zill and Cullen, seventh edition

Prerequisite: MAT 213 Calculus and Analytic Geometry III

Subject matter: We will cover most or all of chapters 1–6 of the textbook, along with two or three sections each from chapters 7 and 11.

Tests: Three one-hour tests will be given before the final exam. The first test will cover chapters 1 and 2, the second test will cover chapters 3 and 4, and the third test will cover chapters 5 and 6 and likely two sections of chapter 7. Makeup tests will be given only in circumstances deemed reasonable by the instructor (see Numbers 9:6–13), but they must be taken before the class meeting following the exam unless prior arrangement is made with the instructor. A comprehensive final exam will be given. It will be over all material covered in the course, including material presented after the last regular test.

Homework: Daily assignments will be given; portions of these will sometimes be handed in. Late homework is not accepted after the assignment has been graded. Some assignments may require *Mathematica*.

Class participation: Either immediately before class or during the first three minutes of class, students are to put on the chalkboard or whiteboard solutions of homework problems from the previous day's assignment. Each student is expected to put up at least 6 problems during the semester (no more than one per day). No two students may put up the same problem.

Final grades: A student's final grade will be based on the homework (100 points total), hour tests (100 points each), and final exam (150 points). A penalty will be assessed (points deducted) for not meeting the requirements listed under "class participation;" the penalty shall be 3 points per problem below the requirement, to be deducted from the semester homework score. The semester homework grade will consist of the student's ten best homework scores. The grading scale will be 92–100, A; 83–91.9, B; 74–82.9, C; 65–73.9, D; 0–64.9, F.

Calculators: A TI-83/TI-84 or similar calculator may sometimes be helpful. The instructor does not offer support for calculators other than the TI-83/TI-84. Use of TI-89, TI-92, Voyage 200 or equivalent calculators will not be allowed during tests.

Academic dishonesty: Acts of cheating or plagiarism will result in an automatic F for this course and will be reported to the office of the provost for possible further action.

ADA accommodations: In compliance with the Americans with Disabilities Act, appropriate accommodations will be made to meet documented needs. Please talk with me about your individual needs following the first class meeting.

Classroom decorum: All cell phones must be turned off while in the classroom. No cell phone is to be visible during tests. No brimmed hats are to be worn during tests.

Office hours: 3:00–3:50 MWF and 9:30–11:30 TR, or by appointment, in PAC C–56.