

Math 2403 (D1, F1) — Differential Equation

Spring Semester 2008

Instructor: Shuguan Ji

Time: TR 9:35–10:55 (D1), and TR 12:05–13:55 (F1)

Place: Skiles 268 (D1), and Skiles 154 (F1)

Office Hours: TR 15:30–16:30

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Recitation: MW 10:05-10:55 at Skiles 170 (D1), and MW 12:05-12:50 at Skiles 154 (F1)

Textbook: *Differential Equations: An Introduction to Modern Methods & Applications* by James R. Brannan and William E. Boyce.

Homework: Homework will be assigned for each section in class but will not be collected. However, it is strongly recommended to work out every problem in the assignments before each quiz since quiz problems are based entirely on homework problems.

Quizzes: Quizzes will be given every Monday from the second week at the beginning of your recitation meeting. They will be based entirely on homework problems due that week and are a test that you completed and understood the homework. No quizzes will be made up, and you will not be allowed extra time if you arrive late to class, but I will drop your two lowest quiz grades.

Tests: There will be two in-class midterms in middle February and late March plus one final exam in late April. The specific date will be announced at least one week in advance. Each test will cover materials taught from the last test date through the date of current test and the final exam will cover all the materials taught this term. No makeup test will be given.

Grading: Grades will be based on the exams and quizzes, your quizzes count for 20%; in-class midterms count for 40% (20% each); the final exam counts for 40%. The grading

scale will be:

A: 90–100, B: 75–89.99, C: 60–74.99, D: 45–59.99, F: <45.

Material: I will try to cover the following materials, but maybe there will be some little changes.

Chapter 1: Introduction

Chapter 2: First Order Differential Equations (skip sections 2.3, 2.7 and 2.8)

Chapter 3: Systems of Two First Order Equations (skip section 3.7)

Chapter 4: Second Order Linear Equations (skip section 4.7)

Chapter 5: The Laplace Transform (skip sections 5.7, 5.8 and 5.9)

In addition, if time is enough, I will also cover some materials in Chapters 6 and 7.