

MATHEMATICS 146B

ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS

Text: *Elementary Differential Equations and Boundary Value Problems, Eighth Edition*, by W. E. Boyce and R. C. DiPrima

Instructor: Zhuang-dan Daniel Guan

Class: TTh: 2.10—3.30pm. Spr. 2340

First class: Jan. 10 Tuesday.

Office Hours: F 1.00—3.00pm in Surge 237 or by appointment.

This is the second in a three quarter sequence courses covering the theory of linear differential equations, boundary value problems for ordinary and partial differential equations. We shall cover an introduction to systems of first order linear differential equations, and an introduction to the nonlinear equations.

Outline for Mathematics 146B

We plan to cover the following sections and expect your eager and sincere participations:

TOPICS	SUGGESTED NO. OF 80 MIN. CLASSES
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Systems of first order linear differential equations 9 (§§ 7.1—7.9)	
Nonlinear differential equations 9 (§§ 9.1—9.8)	

Tests: Midterm in seventh week; Final: Mar. 20, 11.30am—2.30pm Monday.

Homework: Homework assigned during the each Tuesday class is due to following Tuesday.

Homework is important, it counts for 10% of the total credit.

Discussion quizzes 15%. There will be three quizzes in the third, fifth and ninth weeks.

Midterm 25%, and Final 50%.