

MATHEMATICS 46

Introduction to Ordinary Differential Equations

Text: Schaum's Outline of Differential Equations, 3ed, by Bronson and Costa.

An ebook and a Kindle edition are also available.

This is a course covering the standard basic material of differential equations. Topics covered include first order equations, linear second order equations, Laplace transforms and elementary applications to the physical and biological sciences.

TOPICS	SUGGESTED NO. OF WEEK'S COVERAGE
Introduction, First Order Equations Chapters 1,2, 3, 4, 5, 6	3
Applications of First Order Equations Chapter 7	2
Linear Differential Equations Chapters 8, 9, 10, 11, 12	3
Initial Value Problems Chapter 13	1
Application of Second-Order Linear Differential Equations Chapter 14	1