

M2302: Elementary Differential Equations section 5590
MWF Period 3 (9:35 AM - 10:25 AM) Room: LIT0205

Instructor: Cheng Yu, Little Hall 416, chengyu@ufl.edu

Office Hours: MW 10:30am-11:40am.

Textbook: Fundamentals of Differential Equations, 9th Edition, by R. Kent Nagle, Edward B. Saff and Arthur David Snider.

Prerequisites: Grade C or better in MAC 2313, MAC 2512 or MAC 3473.

Description: This course designed for the students from math and Engineering. In this course, we will discuss a variety of topics in Ordinary differential equations and several applications in biology and in mechanics. In particular, we will cover the essentials from chapters 1-5 and chapter 7 of the textbook, that is

Introduction

First-order differential equations

Mathematical Models and numerical methods involving First-order equations

Linear Second-order equations

Introduction to system and phase plane analysis

Laplace transforms

A weekly schedule of topics and assignments: Weeks 1 Chapter 1. week 2-5 Chapter 2, Week 7 Chapter 3, Week 8-11 Chapter 4, Week 12: Chapter 5, Week 13-16 Chapter 7.

Homework assignments: Homework will be assigned weekly, however, we will not grade them. The text questions will be very close to homework problems.

Exams: There will be three Mid-exams and one comprehensive final as follows

Midterm Exam 1: Sep. 24, Monday.

Midterm Exam 2: Oct.22, Monday.

Midterm Exam 3: Nov.28, Wednesday.

Final Exam: Dec. 12, 12:30-2:30pm.

Grade Policy: Each exam is 25 percent. The class participation will be considered in borderline grades.

The grade scale is as follows:

A : [90, 100].

B+:[85, 90).

B : [80, 85).
B-:[77, 80).
C+:[75, 77).
C : [70, 75).
C-:[68, 70).
D : [60, 68).
F : [0, 60).

Extra Help: Please stop by my office during office hours or by appointment to discuss the homework problems or any aspect of the course.

Attendance Policy: Please come to class on time. Please attend all classes. Don't talk with any students in class. Do not use computers, cell phones and other electronic devices during the lectures.

Students with Disabilities: Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.