

Syllabus for MTH 311: Introduction to Ordinary Differential Equations

University of Miami, Fall 2019

www.math.miami.edu/~cscaduto/teaching/311-fall-2019/

Instructor:

Prof. Christopher Scaduto

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Office: Ungar 525

Office hours: 11:15–12:15 MF, 2:30–3:30 W, or by appointment

I am teaching two sections:

- ◆ MTH 311 C 10:10–11:00 MWF Classroom: Dooly Memorial 102
- ◆ MTH 311 F 1:25–2:15 MWF Classroom: Mahoney Pearson 118

Textbook:

Differential Equations and Boundary Value Problems, 5th edition

by Edwards, Penny and Calvis.

Description:

In this course we will study ordinary differential equations (ODE), which are equations involving the derivatives of a function in one variable. We will cover most of the topics in Chapters 1–8 of the textbook, time permitting. General topics include first-order differential equations, linear equations of higher order, linear systems of differential equations, non-linear systems, and the Laplace transform. You are responsible for material covered during lecture, the readings, and the homework.

Homework:

Each week I will assign some homework problems. The problems will be listed on the course webpage, whose URL is listed above. I will collect homework on Fridays. No late homework will be accepted. Your lowest homework grade will be dropped.

Exams:

There will be two midterms and a final. The dates for the midterms will be announced later in the course. The final exam for each section is scheduled as follows:

- ♣ Final exam for MTH 311 C: December 11, 11:00–1:30
- ♣ Final exam for MTH 311 F: December 11, 2:00–4:30

Grading scheme:

- ♣ Homework = 20%
- ♣ Each Midterm = 25%
- ♣ Final Exam = 30%

The letter grades will follow the cutoff rules $A > 90\%$, $B > 80\%$, $C > 70\%$. Any adjustments will be in your favor.