

Johns Hopkins University
AS 110.302.88 - Online Differential Equations with Applications
Summer 2018

Instructor Information

Instructors: Patrick Martin (mmart152@math.jhu.edu) and Dan Ginsberg (dginsbe5@math.jhu.edu)

Office Hours: By appointment (Email us! We'll respond within 24 hours)

Course TAs: Rong Tang (rtang18@math.jhu.edu), Xiyuan Wang (xwang151@math.jhu.edu)

Course Information

Course Dates: June 11 - August 3

Prerequisites: Calculus II is a prerequisite. Even though this course involves some basic knowledge of linear algebra, it is not strictly required. That portion will be covered briefly during the course.

Textbook: Elementary Differential Equations and Boundary Value Problems by Boyce and DiPrima, Wiley, 10th edition, ISBN 9780470458310

Lectures and Sections

Live lectures and sections (each 90 minutes long) will be held in the eLive online environment. Students are asked to log in using any remote computer with compatible internet browsers. Microphones are optional. All the lectures and sections will be recorded. Links to the live lectures/sections and recordings will be posted in the Course Calendar on Blackboard.

Homework

In order to master the material, there will be required homework problems. Homework will be assigned once a week, and posted in the course calendar, in Blackboard, and on the course web page. Homework will be due on Tuesdays, before class starts. Detailed instructions on how to submit homework will be available on the course website. Please make sure scanned HW is readable before you submit it.

Your lowest homework score will be dropped from your final grade.

Exams

There will be 3 exams in total. Their dates are as follows:

- Midterm 1: July 5-8

- Midterm 2: July 19-22
- Final: August 2 - August 4

Students will be able to take the exams remotely if a suitable proctor is arranged in advance. Please see the following website for more information on proctoring requirements:

<http://www.mathematics.jhu.edu/new/undergrad/onlinecourse-Proctoring.htm>

Grading

The final grade breakdown is as follows:

- 10% Homework
- 25% Midterm 1
- 25% Midterm 2
- 40% Final Exam

Provisional Course Content

Sections 1.1-1.3, 2.1-2.6, 2.8, 3.1-3.7, 4.1-4.3, 6.1-6.4 7.1-7.8, 9.1-9.5