

Math 245 Fall Semester 2023

Mathematics of Physics and Engineering (Differential Equations and Linear Algebra)

Instructor: Professor Gary Rosen

Office: KAP 244C

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Email: grosen@math.usc.edu

Office Hours: MW 2::00 – 3:00 or by appointment

Zoom Link:

<https://usc.zoom.us/j/95151923344?pwd=RTFVd0xZZy9PMjRrb0VDZGcyV1hVUT09>

Meeting ID: 951 5192 3344

Passcode: 957745

Lecture and Discussion: Class No. Time Location

Lecture: 39606D MWF 1:00-1:50 SOS B44

Zoom Link:

<https://usc.zoom.us/j/93113036964?pwd=NDBpR1d2aU1wcE0raGkrQjhJU2xzQT09>

Meeting ID: 931 1303 6964

Passcode: 28wvD91KUc

Discussions: 39607R, 39608R TTH 2:00-2:50, 3:00-3:50 KAP 138

Text:

1. Boyce and DiPrima, Elementary Differential Equations (and Boundary Value problems); An Introduction to Modern Methods and Applications, Eighth Edition
2. Polking, Boggess, and Arnold, Differential Equations, Second Edition

Material Covered: (B & D) Most parts of Chapters 1-8, Except Possibly 5. (P, B & A) Most parts of Chapters 1-9.

T.A: Haoxing Liu

Office: KAP 244

Phone:

Consulting Office: Math Center

Email: haoxingl@usc.edu;

Office Hours: TBA

Grader: Yao Liu

Email: jliu3548@usc.edu

Assignments: Problems from the text will be assigned after Friday's class on the material covered that week in lecture. The grader will post sketches of solutions the following Wednesday on Blackboard and

there will be a 20 minute quiz on that material in discussion section on the following Thursday. You may get help with the problems at the discussion, the TA office hours, or my office hours.

Exams: There will be three midterm exams. There is no final exam. The three midterms will be given on the following dates:

Mid-term Exam 1: Wednesday Sept 27, 2023 1:00-2:00 SOS B44

Mid-term Exam 2: Wednesday Nov 1, 2023 1:00-2:00 SOS B44

Mid-term Exam 3: Wednesday, Dec 13, 2023 11:00-1:00 SOS B44

Grading: The course will be graded as follows:

Mid-term Exam 1: 25%

Mid-term Exam 2: 25%

Mid-term Exam 3: 25%

Quizzes 25%

Policy regarding students with disabilities: Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to me (or to TA) as early in the semester as possible. DSP is located in GFS 120 and is open 8:30 am – 4:30 pm, Monday through Friday. Website for DSP: <http://dsp.usc.edu> and contact information: (213) 740-0776 (Phone), (213) 740-8216 (FAX), ability@usc.edu (Email).