

Department of Mathematics
University of California
Riverside, CA 92521

Syllabus for Math 146C, Ordinary and Partial Differential Equations Section 10, Spring Quarter 2020

1. Course Information

Instructor: Zilong Song, zilong.song@ucr.edu

Office Hours: TR 1:30 pm--3:20pm, or by appointment

Lecture: WF 9:30am—10:50am, **online lecture by zoom meeting**
<https://ucr.zoom.us/j/697357632>

Textbook: An Introduction to Partial Differential Equations, Yehuda Pinchover & Jacob Rubinstein, Cambridge University Press, 2005

Website: <https://ilearn.ucr.edu>

Couse Description:

This course is a continuation of Math 146a and 146b, which are prerequisites for this course. It covers the standard materials of partial differential equations (PDEs). Specific topics include classification of PDEs, characteristic equations, separation of variables, elliptic equations, Green's functions, Laplace equation, heat equation, wave equation, and eigenvalue problems.

Discussion Sections:

Section 11: R 6:00pm –6:50pm, online lecture by zoom meeting
TA: Ryan Ta, ryan.ta@email.ucr.edu

Section 12: R 4:00pm –4:50pm, online lecture by zoom meeting
TA: Ryan Ta, ryan.ta@email.ucr.edu

His office hours will be posted on iLearn.

2. Grading

The total grade consists of 3 parts:

- **Homework (20%)**
- **Midterm (30%)**
- **Final (50%)**

Homework

There will be homework after lectures. The homework must be submitted to crowdmark for grading. Please check the due date on the homework and crowdmark. Late submission will NOT be accepted.

Midterm and Final Exams

Midterm exam will be on Friday, 5/1/20, during the lecture.

Final exam will be on Tuesday, 6/9/20, 7:00pm—10:00pm. Final exam is comprehensive.

The formats of exam are subject to change. The current plan is to use **crowdmark and zoom**. Crowdmark is for submitting your answers and zoom is for proctoring. Exam problems will be based on lecture notes, homework, problems in discussion lectures, and suggested exercises.

If you cannot come to any of the exam, you have to make arrangements at least one week before the exam except some emergency situations. We will only accept very few reasons for not attending one of the exams. Those reasons are limited to: medical reasons, religious reasons, interviews for scholarships, and participation in intercollegiate sports. Written verification (from physician, lawyer, judge, parole officer, etc.) will be required for any makeup exam.

Attendance

You are expected to attend all lectures and discussions. We will take attendance randomly for a few times during the course. Any activities that disturb other students are not allowed.

3. Additional information

Online lectures

Due to UCR's policy to limit the campus community's exposure to the COVID-19 virus, instructions for *the entire spring quarter* will be held online. Please be prepared and equipped to attend classes online.

Lectures will be delivered online via **zoom**. The instruction is synchronous, meaning that you will be face-to-face via **zoom** with your instructor in lecture. The lectures have definite meeting times and attendance is mandatory. Discussion sections and office hours will be conducted online via **zoom**.

Online Etiquette

The online nature of the class requires us to pay special attention to our behavior. Background noise should be reduced to a minimum. Be sure to mute yourselves when you are not speaking in order to reduce background noise. Headset typically could help to reduce background noise when you are speaking. Arrange for yourself a quiet location while you are in class. Remember that, although you are online, you are still in a classroom and you should dress appropriately. The instructor and other students will, in general, be able to see you more clearly than we would in a physical classroom. The instructor reserves the right to videotape each online lecture, discussion section, and office hour for record keeping purposes.

Academic Integrity

Cheating will be taken very seriously. Every attempt to cheat will give you an automatic “F” for the course. You will not be allowed to drop the course, and your case will be forwarded to the student conduct committee.

Students with Disabilities

UC Riverside is committed to providing equal access to learning opportunities to students with documented disabilities. To ensure access to this class, and your program, please contact the Student Disability Resource Center (SDRC) to engage in a confidential conversation about the process for requesting accommodations in the classroom. More information can be found on <https://sdrucr.edu>. If you are a student registered with the SDRC, please ensure you request your quarterly accommodations through sdrucr.edu.

Help in the material

Feel free to contact your TA or me when needed. A few questions answered at the right moment can make a difference for you to succeed in this course. We highly encourage you to:

1. Attend classes and feel free to ask questions in lectures.
2. Meet the instructor or the TA during office hours. Feel free to ask any course-related questions, however, we will not answer the exact online homework questions in details until it's due.