Partial Differential Equations I: MATH: 6710:0001
Course meeting time and place: 12:30P - 1:20P MWF 218 MLH

Department of Mathematics [Weblink]

Course Home The College of Liberal Arts and Sciences (CLAS) is the
home of this course, and CLAS governs the policies and procedures for its
courses. Graduate students, however, must adhere to the [academia
deadlines set by the Graduate College].

Instructor: Lihe Wang
Office location: 225B MLH
Student drop-in hours:: 10:30-11:20AM MWF in person and/or online, on
zoom or by appointments. Zoom address: zoom: 98374030833.
Phone: 319-335-3253
Email: lihe-wang@uiowa.edu
DEO: Ryan Kinser, 14 MLH, ryan-kinser@uiowa.edu

Description of Course Variational Methods, Schauder Theory, Caldron-
Zygmund theory, Saionov-Krylov Theory and research projects.

Learning Objectives:
This course is an introduction to the theory of Partial Differential Equa-
tions. Basic topics to be covered will include the Laplace operator, the heat
and the wave equations, as well as nonlinear first order equations (Burg-
ers equation and Hamilton-Jacobi equations). Variational method will be
developed for nonlinear equations.

Textbook: Evans, Lawrence C. *Partial Differential Equations, 2nd edi-
tion*, Graduate Studies in Mathematics, 19. American Mathematical Soci-

Homeworks: Homeworks will be assigned biweekly and collected one
week from the assignment date.

Examination: One final exam.

Grading Policy: Late homework will be accepted with 1/10 discount
per day.

Your grade will be based on Homework (70%) Final (30%).
other unavoidable circumstances. Students with mandatory religious obligations or UI authorized activities must discuss their absences with me as soon as possible. Religious obligations must be communicated within the first three weeks of classes.

Communication: UI Email

Students are responsible for all official correspondences sent to their UI email address (uiowa.edu) and must use this address for any communication with instructors or staff in the UI community.

More Inform for notes to the students from the university, 2023

Accommodations for Students with Disabilities
Basic Needs and Support for Students
Classroom Expectations
Exam Make-up Owing to Absence
Free Speech and Expression
Mental Health
Military Service Obligations
Non-discrimination
Religious Holy Days
Sexual Harassment/Misconduct and Supportive Measures
Sharing of Class Recordings