

# Partial Differential Equations (I)

**Instructor:** Dr. Wen-Ching Lien, Math 311, wlien@mail.ncku.edu.tw

**Office Hours:** Wednesday 3-5 pm (or by appointment).

**Text:** "Applied Partial Differential Equations", David Logan

**Introduction:** This is a one-semester, senior (or first year graduate student) course. The principal objective of this course is to solve partial differential equations which arise in applications. As opposed to problem-solving techniques, the study of the ideas underlying the subject and the reasoning behind the techniques are equally emphasized. The prerequisites are calculus and post-calculus differential equations.

**Homework:** Homework assignments will be distributed in class. For each lecture's material we will assign a number of problems to be handed in. You may collaborate on homework problems but must write up your own solutions.

**Exam:** The course will have two exams including the final exam. Tests will be closed book and no calculators. You may reschedule an exam in case of documented illness or family emergency or documented University sponsored trips.

**Grading Policy:** The final grade will be determined by your performance on the homework and the three exams, according to the following algorithm:

Homework: 30%

Midterm Exam: 30%

Final Exam: 40%

**Attendance:** You should be aware that I consider every student responsible for everything that occurs in our classroom during every class period. If you miss any announcements, any handouts, any assignments given, or any material covered, it is your responsibility.