Math 576 -- Classical methods of PDEs
Syllabus for Spring 2015/16

Course description

Math 576 is the second semester of our standard prelim graduate differential equations sequence. As such, its goal is to familiarize you and pursue an in-depth study several classical topics in partial differential equations, including first and second order equations, method of characteristics, weak solutions, distributions, wave, Laplace, Poisson, heat equations, energy methods, regularity problems, Green functions, maximum principles, Sobolev spaces, imbedding theorems.

Course information


Course Structure: The class contains three hours of lectures on MWF, which will be held from 11:00 to 11:50 am in Taft Hall 309. Office hours will be announced during week 1 of the semester.

Methods of evaluation

Homework: Homework for the course is assigned every week and is posted on the course webpage. You are very strongly encouraged to work together with a group of colleagues on the homework problems, but you must write up the solutions by yourself! The homework will count for 40% of your course score.

Midterm: The midterm is a 1-hour, in-class exam which will take place between weeks 7 and 9 of the semester. The midterm will count for 20% of your course score.

Final Exam: The final is a 2-hour exam which will take place between 10:30am and 12:30pm on Thursday, May 5, 2016.

Academic Policies

Academic Integrity Policy: As an academic community, UIC is committed to providing an environment in which research, learning, and scholarship can flourish and in which all endeavors are guided by academic and professional integrity. All members of the campus community—students, staff, faculty, and administrators—share the responsibility of insuring that these standards are upheld so that such an environment exists. Instances of academic misconduct by students will be handled pursuant to the Student Disciplinary Policy: http://www.uic.edu/depts/dos/docs/Student%20Disciplinary%20Policy.pdf

Academic Deadlines

Friday of week 2 (Jan. 22, 2016): Last day to complete late registration; last day to add a course(s) or make section changes; last day to drop individual courses via Student Self-Service without receiving W (Withdrawn) grade on academic record. Last day to submit Withdraw from Term request via Student Self-Service and receive 100% cancellation of tuition and fees.
Friday of week 10 (Mar. 18, 2016): Last day for students to use optional late drop in college office and receive grade of W on academic record.

The current academic calendar, as well as the list of academic deadlines can be found at [http://www.uic.edu/ucat/catalog/CA.shtml](http://www.uic.edu/ucat/catalog/CA.shtml)

**Disability Policy:** The University of Illinois at Chicago is committed to maintaining a barrier-free environment so that students with disabilities can fully access programs, courses, services, and activities at UIC. Students with disabilities who require accommodations for access to and/or participation in this course are welcome, but must be registered with the Disability Resource Center (DRC). You may contact DRC at 312-413-2183 (v) or 312-413-0123 (TTY) and consult the following: [http://www.uic.edu/depts/oaa/disability_resources/faq/accommodations.html](http://www.uic.edu/depts/oaa/disability_resources/faq/accommodations.html).

**Religious Holidays:** Students who wish to observe their religious holidays shall notify the faculty member by the tenth day of the semester of the date when they will be absent unless the religious holiday is observed on or before the tenth day of the semester. In such cases, the student shall notify the faculty member at least five days in advance of the date when he/she will be absent. The faculty member shall make every reasonable effort to honor the request, not penalize the student for missing the class, and if an examination or project is due during the absence, give the student an exam or assignment equivalent to the one completed by those students in attendance. If the student feels aggrieved, he/she may request remedy through the campus grievance procedure. For a calendar of this year's religious holidays, please see: [http://www.uic.edu/depts/oae/docs/ReligiousHolidaysFY20122014.pdf](http://www.uic.edu/depts/oae/docs/ReligiousHolidaysFY20122014.pdf)

**Grievance Procedures:** UIC is committed to the most fundamental principles of academic freedom, equality of opportunity, and human dignity involving students and employees. Freedom from discrimination is a foundation for all decision making at UIC. Students are encouraged to study the University's “Nondiscrimination Statement”. Students are also urged to read the document “Public Formal Grievance Procedures”. Information on these policies and procedures is available on the University web pages of the Office of Access and Equity: [www.uic.edu/depts/oae](http://www.uic.edu/depts/oae).