

# Math 246B – Partial Differential Equations

**Lecture:** TR 11:00-12:15 pm, SH 4607  
**Instructor:** Viktor Grigoryan, (805) 893-2889, [grigoryan@math.ucsb.edu](mailto:grigoryan@math.ucsb.edu)  
**URL:** <http://www.math.ucsb.edu/~grigoryan/246B/> (homework, lecture notes, etc...)  
**Office Hours:** TWR 1-2 pm (and by appointment) in SH 6702

## Syllabus

**Textbook(s):** *Introduction to Partial Differential Equations* by G. Folland  
*Partial Differential Equations* by L. Evans  
*Partial Differential Equations* by R. McOwen  
*Partial Differential Equations* by F. John

**Outline:** Fourier Transform; Sobolev spaces; Solvability of elliptic equations, Elliptic regularity; Wave equation in higher dimensions.

**Homework:** semi-regular assignments, will let know at least 2 weeks in advance.

**Grading:** Homework - 40%  
Midterm exam - 30% (take-home, date TBA)  
Final exam - 30% (March 17, 12-3pm)