



The Graduate Center of CUNY  
Ph.D. Program in  
Mathematics Course Syllabus  
Spring 2017

Course Title: Functions of a Real Variable II

Course #: 70200

Time and Location: T, Th 12:00 - 1:30 pm, TBA

Instructor Name: Zheng Huang

Contact Information: zheng.huang@csi.cuny.edu

Pre-Requisites: Functions of a Real Variable I

Office Hours: TTh: 1:30pm-3pm

Description:

The course is the second installment of the year-long course in Real Analysis. We will cover the following subjects: measure theory and the Lebesgue integral, Fubini's theorem, the convergence theorems, differentiation theorem,  $L_p$ -spaces, Hilbert and Banach spaces. Most subjects required for the qualifying exams will be covered.