MATH 810 - REAL ANALYSIS, FALL 2014 T R 1:00-2:15, 156, SNOW HALL

- Instructor: Professor Atanas Stefanov
- Office: Snow 514, Phone: 4-3009
- Office Hours T 3:00-4:00, R 11:00-12:00 or by appointment.
- Web: stefanov@ku.edu http://www.math.ku.edu/~stefanov
- Prerequisite: Math 766 or equivalent
- Topics:
 - Sets and measures Chapters 2,3,4
 - Measurable functions and the Lebesgue integral Chapters 5, 6, 7, 8, 10.
 - The Radon-Nikodym theorem Chapters 11, 12, 13.
 - $-L^p$ spaces, duality Chapter 15.
 - Banach spaces Chapter 18.
 - Hilbert spaces (time permitting) Chapter 19.
- **Text:** Real analysis for graduate students, second edition by Richard F. Bass, ISBN-13: 978-1481869140
- **Homework**: There will be five to seven homework assignments covering specific portions of the material, assigned approximately once every two weeks
- Exams: There will be one midterm exam and a comprehensive final exam.
- Grade: The grade will be determined as follows: Homework assignments - 40 %, Midterm exam - 20 %, Final exam - 40 %.
- Students with disabilities: The staff of Services for Students with Disabilities (SSD), 135 Strong, 785-864-2620, coordinates accommodations and cervices for KU sources. If you have a disability for which you may request accommodation in KU classes and have not contacted them, please do so as soon as possible. Please also see your instructor privately in regard to this course.
- **Religious observances**: Any student in this course who plans to observe a religious holiday which conflicts in any way with the course schedule or requirements should contact me as soon as possible to discuss alternative accommodations.