COURSE DESCRIPTION
REAL ANALYSIS II
MA 646-2F

DEPARTMENT OF MATHEMATICS
UNIVERSITY OF ALABAMA AT BIRMINGHAM

Course Instructor: Rudi Weikard
Office: CH 481 B
Phone#: 934-3720
E-mail: weikard@uab.edu
Office Hours: Drop in anytime or call for an appointment.

Meeting times: TT 3:30 pm — 4:45 pm
Meeting location: CH 458
Textbook: No textbook required. Lecture notes will be available.

Important dates:
First day of class: January 9
Spring Break: March 12 – 18
Last day of class: April 19
Grades available online: May 2

Course content:
• The Lebesgue-Radon-Nikodym Theorem
• Radon Functionals on Locally Compact Hausdorff Spaces
• Differentiation
• Lebesgue-Stieltjes Measures and Functions of Bounded Variation
• Additional Topics

Assessment procedures: Final grades are determined by participation in class during the course.
To receive a grade of B requires a solid understanding of the concepts of measure and integral, the ability to reason through the proofs of several standard theorems, and the ability to solve many of the assigned problems.
To receive a grade of A requires a deep understanding of the concepts of measure and integral, the ability to reason through the proofs of most standard theorems, and the ability to solve most of the assigned problems.

Date: December 6, 2017.