

Spring 2016 MAA 5229 sec 7059 5th Lit 207

OH MF 7 oba

Text Principles of Mathematical Analysis, by Walter Rudin, 3 rd ed.

Description: This course has proved to be an exciting format for students in science and related fields who are interested in obtaining a background in the foundations of Analysis that can be used in advanced work using sophisticated mathematical techniques. The course is conducted as a seminar with class discussions of the concepts involved. The topics from Rudin include the Riemann-Stieltjes integral, sequences and series of functions, uniform convergence with applications, equicontinuous families of functions, the Arzela-Ascoli theorems, Stone- Weierstrass theorems, Lebesgue theory, convergence theorems in this theory, many applications, Hilbert and Banach spaces, applications to probability theory.

J.K. Brooks Professor of Mathematics Lit 306 jkbrooks@ufl.edu OH MF 7 oba