OFFICIAL SYLLABUS

MATH 534-CALCULUS CONTENT, PEDAGOGY, AND CONNECTIONS Effective Fall 2012

CATALOG DESCRIPTION: A focused look at calculus content through multivariable calculus, best practices in pedagogy, and connections in other areas.

Prerequisites: MATH 350 with a C or better or consent of instructor; within the Department of Mathematics and Statistics credit can only be earned for the Postsecondary Mathematics Education option.

Textbook: A Radical Approach to Real Analysis, by Bressoud, 2nd Edition

Chapter 1: Crisis in Mathematics: Fourier's Series

Chapter 2: Infinite Summations

Chapter 3: Differentiability and Continuity

Chapter 4: The Convergence of Infinite Series

Chapter 5: Understanding Infinite Series

Chapter 6: Return to Fourier Series