



**Catalog Description:**

4547-4548 involved advanced calculus covering: sequences, limits, continuity, differentiation, Riemann integral, sequences and series of functions, Taylor series, and improper integrals.

**Prerequisite:**

C- or better in 4547, or credit for 548.

**Text:**

*Introduction to Real Analysis*, 4<sup>th</sup> edition, by Bartle & Sherbert, published by Wiley,  
ISBN: 9780471433316

**Topics List:**

- Ch. 6      Differentiation
- Ch. 7      The Riemann Integral
- App. C    The Riemann and Lebesgue Criteria
- Ch. 8      Sequences of Functions
- Ch. 9      Infinite Series