



Catalog Description:

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

Prerequisite:

C- or better in 3345; or credit for 345.

Text:

Introduction to Real Analysis, 4rd edition, by Bartle & Sherbert, published by Wiley, ISBN: 9780471433316

Topics List:

1. Sequences and their limits.
2. Bolzano-Weierstrass Theorem and Cauchy's criterion.
3. Convergence and absolute convergence of series. Tests for convergence.
4. Power series.
5. Continuous functions.