



Catalog Description:

Continuation of Math 4547.

Prerequisite:

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

Text: Instructors will choose one of the following recommended texts:

Elementary Analysis, 2nd edition, by Kenneth A. Ross, published by Springer, ISBN: 978-1-4614-6271-2 (eBook), Available free through OSU libraries. Section 19 and Chapters 4-6.

Introduction to Real Analysis, 4th edition, by Bartle & Sherbert, published by Wiley, ISBN: 9780471433316, Section 5.4 and Chapters 6-10.

Topics List:

1. Uniform continuity (Recap from 4547).
2. Derivatives, Mean Value Theorem, L'Hospital's rule.
3. Sequences and series of function, Pointwise and uniform convergence, Power series.
4. Riemann integral.
5. Exponential and logarithmic functions.