

Instructor: Dr. Tom Caplinger

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Office hours: 11:00-12:00 MTWF and by appointment

Text: *Calculus (Early Transcendental Functions)*, 4th ed., by Larson, Hostetler and Edwards, Houghton Mifflin, 2007.

Course description:

This course is an introduction to (1) formal and numerical techniques of integration, (2) Taylor's Theorem, sequences, series, power series, and their applications, (3) applications of integration and series to solving first-order differential equations, and (4) applications of integration to calculate area, length, volume, probability, work, centroids and fluid pressure.

Prerequisite: Math 121.

Course Requirements:

In addition to four in-class tests, quizzes, and a comprehensive final exam, students will complete Problem Sets on a regular basis. Students may work in groups to solve the problems in these homework assignments, but each student will write his/her own report of the solutions. Grading of the Problem Sets will be based on accuracy and presentation.