MATH511 Foundation of Analysis (Fall, 2021)

Text: A first course in analysis, J. B. Conway

Time: Lecture 1:30-2:50 pm(TuTh), ES108.

Instructor: Dr. Ron Yang,
Office Hours: 3-4pm (TuTh) at ES 319(C).

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Course Objectives: This course studies the theoretical foundation of calculus. Subjects include Real Numbers, Series of numbers, Sequence of functions, Series of functions, General metric space, Derivative and Integrals in high dimensions, Curves and Surfaces and Differential forms (time permitting). This course is designed for senior undergraduates and graduate students in math. The best learning strategy is PREVIEW, LISTEN, REVIEW and HOMEWORK.

Homework and Tests: Homework is usually assigned after each class, and will be collected for grading. There will be 3 tests, one for each month, and no final exam. Dates will be announced a week in advance. 80% of the test problems will be of homework-type while the other 20% will be more challenging. There is no make up test, those with difficulties should make arrangement for an early test.

Grade Percentage: HW 30%, midterm 30%, final 40%.


Classroom Manners: Arrive before class starts, leave after class. Attendance will be checked from time to time and will affect grade. Special cases need permission from professor. Turn off cell phone during class. Cheating on quizzes or exams is strictly forbidden. Please read academic integrity regulations at http://www.albany.edu/undergraduate_bulletin/regulations.html.