Andrew Vince
Department of Mathematics

College *of* Liberal Arts *and* Sciences

Introduction to Real Analysis and Advanced Calculus 2

MAA 4212
Spring 2024

Time: MWF period 5
Place: 101 Keene-Flint Hall
Email: avince@ufl.edu
Office : 438 Little Hall
Office hours: MWF – period 6 or by appointment

Textbook: Notes on Real Analysis (pdf will be provided)

Real Analysis and Advanced Calculus 2

The setting for this course is a *metric space,* which includes Euclidean spaces as a special case. In addition to the concepts encountered in the first semester, sequences of functions and power series will be covered. The course ends with an introduction to multivariable calculus.

Homework

See canvas.

Topics

- Metric Space
- Compactness
- Continuity
- Sequences of Functions
- Linear Algebra
- Multivariable calculus

Grades

Three exams, each worth 30%

- Exam 1.
- Exam 2.
- Exam 3.

Five homework assignments, each worth 2%.

The exams will be graded on a sliding scale, the harder the exam, the more lenient the grading. Out of 100, it will never be stricter than 90A, 80B, 70C, 60D.

Campus Resources

The course will be conducted in accordance with the Academic Honesty Policy and policy regarding the use of copyrighted material.

Students with disabilities requesting accommodations should first register with the Disability Resource Center by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Academic advise and tutoring, as well as health advise (physical and mental) is available to students.

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: Attendance Policies

Information on current UF grading policies for assigning grade points may be found at: Grades

Students are expected to provide feedback on the quality of instruction in this course by completing a course evaluation online

via GatorEvals. Students will be notified when the evaluation period opens and can complete evaluations through the email they receive from GatorEvals or in their Canvas course menu under GatorEvals.
