

Andrew Vince
Department of Mathematics

College of Liberal Arts and
Sciences

Introduction to Real Analysis and Advanced Calculus 1

MAA 4211-7222

Fall 2023

Time: MWF period 7
Place: 101 Keene-Flint Hall
Email: avince@ufl.edu
Office : 438 Little Hall
Office hours: MWF – period 8 or by appointment

Textbook: Understanding Analysis, 2nd edition by S. Abbott



Advanced Calculus

The topics of this course include: the real numbers, functions defined on the real line, the derivative, and the Riemann integral. The topics are familiar from calculus. This semester, however, they are covered in a rigorous and proof oriented way.

Homework

See canvas.

Topics

The real numbers

Sequences and series of real numbers

Basic point set topology of the real line

Limits and continuity

The derivative

Sequences and series of functions

The Riemann Integral

Grades

Three exams, each worth 25%

Exam 1. September 22

Exam 2. October 27

Exam 3. December 4

Five homework assignments, each worth 5%.

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.

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