



Modern Analysis (MAA 5229/4227)

Spring 2019: Section 3014/01CH, MWF 4th hour, Little Hall, room 125

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Office Hours: TBA

Description and Goals

The text for the course is

[Principles of Mathematical Analysis](#), by Walter Rudin, McGraw-Hill 1976.

In this course we will cover most of chapters 7 and 10 of the text. Topics include sequences and series of functions, and the Lebesgue integral. We may cover some topics from Chapter 8 as time allows. For the material on the Lebesgue integral we will deviate somewhat from the treatment in Rudin and I will post lecture notes on this webpage.

The webpage for last semester's course may be found [here](#).

This Week's Lectures

Wednesday 1/9: Uniform convergence, interchange of limits, Dini's theorem

Monday 1/7: Sequences of functions, pointwise and uniform convergence, examples

Past Lectures

Homework

Homework will be assigned and graded weekly; assignments will be posted below as the semester progresses.

Homework 1 (Due Wednesday 16 Jan)

Exams and Grading

There will be two exams during the term, each counting for 1/4 of the grade. The homework average will count for 1/2 the final grade.

Exam 1: TBA

Exam 2: TBA

Additional Information:

Grades: Grading will be in accord with the UF policy stated at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

Honor Code: “UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The [Honor Code](#) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.”

Class Attendance: “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: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.”

Accommodations for Students with Disabilities: “Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://www.dso.ufl.edu/drc/>) 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.”

Online Evaluations: “Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last

two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.”

Contact information for the Counseling and Wellness Center: <https://counseling.ufl.edu/>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.



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