Math 412, Real Analysis II
Spring 2018

Professor .... Michele Benzi Voice ............ 727-3638
Office ............ E428 MSC Email ............ benzi@mathcs.emory.edu
Office hours ... Tue/Thu 4:00–5:00 PM

Course web page: http://www.mathcs.emory.edu/~benzi/Web_papers/math412.html


Main topics:

- Differentiable mappings
- Local extrema, Taylor’s formula
- Local invertibility, implicit function theorem
- Differentiable manifolds, constrained minima
- Theory of integration, Fubini’s theorem
- Elements of Fourier analysis

Course Policies

Grades:
There will be 1 midterm, 6-7 quizzes, and a final exam. The lowest quiz score will be dropped. Homework problems will be assigned and discussed in class, but will not be collected. You must notify me one week before an exam if you have a conflict or bring me a note from the Dean to reschedule a test or a quiz. The final grade will be determined as follows:

30% Quizzes  35% Midterm  35% Final

Tests:
There will be a midterm on the following date:

Tuesday, March 6

The final exam will be on

Wednesday, May 9 (8:00AM–10:30AM).

The date of the final cannot be changed under any circumstances.

Honor Code:
All students must adhere to the provisions of the Emory College Honor Code. Lack of knowledge of the academic honesty policy is not an acceptable excuse for a violation.

Other:

- In order to be in this class you must have passed Math 411, Real Analysis I.
• Students are expected to attend classes regularly. If you do miss classes, it is your responsibility to get the lecture notes and announcements from another student.

• Don’t be late for class!

• Students are not allowed to consult any kind of notes or books or electronic device on any quiz or exam.

• All cell phones and electronic devices must be silenced during the class period.

• Open laptops are not allowed in class.

• Please, no eating or drinking in class, and no leaving the classroom during class or exams unless it’s a genuine emergency.

• If you have questions ask me, not your neighbor.

• ADSR: If you need extra accommodations, please contact the Office and notify me as soon as possible.