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Course Objective

Our objective this quarter is to parlay the mathematical knowledge and maturity we have gained as mathematics majors into an in-depth study of Lebesgue measure on the real line. In true seminar fashion our path will be narrow and deep, each of us contributing to the forward progress of our collective scholarship.

Methodology

Our high ambitions will necessitate various vehicles for progress.

1. **Presentation.** Class time will be spent presenting, discussing and working on mathematics.

2. **Portfolio.** Each of us will maintain a portfolio of polished write-ups of every exercise, proposition, lemma, theorem and corollary that we encounter.

3. **Homework.** Weekly homework will be collected on Fridays, read over the weekend and returned with feedback after the weekend.

4. **Query.** Two students will be drawn randomly for a daily query at the beginning of each class.

Ethos

Our guiding belief is that we have reached a crowning moment in our undergraduate mathematical education. The breadth and depth of our preparation will be tested. We value quality over quantity and process over results. It is the purest of educational circumstances: we are here to enjoy our subject and we answer to none but ourselves. We embrace this rare opportunity with humility, respect and intellectual energy.
Office Hours

Our in-class discussions will likely be the proverbial “tip of the iceberg.” To facilitate sustained mathematical discussion, there will be additional times to meet throughout the week.

- M 11:10-12:30.
- R 12:10-1:00.
- F 11:10-12:30.
- By appointment.

Grading

Course grades will be calculated as follows:

- Query (10%)
- Portfolio (30%)
- Presentation (30%)
- Homework (30%)

Academic Integrity

It is my opinion that there is hardly any human act more satisfying or important than the sharing of knowledge. I therefore consider the classroom and the university at large to be hallowed ground, well deserving of all the humility and respect that we would afford our other most sacred places.

Please refer to the University’s policy on cheating and plagiarism found in the Campus Administration Manual, Section 684.

In short: be sensible, respectful and mindful of the integrity of the system we are all so lucky to share.