

MWF 10:00-10:50 AM, King 327

- Instructor:** Jim Walsh, King 220C
775-8387 (office); 775-8380 (messages)
(syllabus, homework assignments, handouts on Blackboard)
- Office Hours:** Monday 3:30-4:30 PM
Tuesday 9:00-10:00 AM & 3:00-4:30 PM
(also by appointment)
- Text:** H.L. Royden, *Real Analysis*, 3rd edition, Prentice-Hall (1988). This required text is available at the College Bookstore.
- Homework:** Homework assignments will be collected on a fairly regular basis. Each student will be required to present solutions to homework problems or other work in class at various times throughout the semester. *Late assignments, except under extraordinary circumstances, will not be accepted.*
- Exams:** There will be one take-home midterm during the semester and a cumulative final exam. The due date for the midterm is 17 October. The final exam will take place on 18 December at 2 PM.
- Grading:** Each of the midterm and final exams counts $33.\bar{3}\%$ towards the final grade. The homework and classroom presentations together will comprise $33.\bar{3}\%$ of the final grade.
- Honor System:** You are urged to review the Honor Code and Honor System, available, for example, on the Blackboard site for this course. You will be expected to adhere to the Honor Code and Honor System with respect to all of your work in this class.
- Topics:** The goal of the course is to provide a thorough introduction to both Lebesgue measure and general measure spaces. To that end we will cover Part One and sections of Part Three in our text. If time permits, we will present “applications” of measure theory to dynamical systems.



A generalization made not for the vain pleasure of generalizing but in order to solve previously existing problems is always a fruitful generalization.

—Henri Lebesgue, 1875-1942