

Math 524
Real Analysis
Autumn 2021

Lecturer: Bobby Wilson

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Office Hours: Wednesdays 3:30 pm – 5:30 pm, Fridays 10:00 am-11:20 am in PDL C-344 and by appointment.

TA: Joonyong Choi

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Office Hours: Wednesdays 1:30 pm – 3:30 pm in C-130 (Math Lounge)

Class Times: Monday, Wednesday, and Friday, 11:30 am-12:20 pm in PDL C-038

Text: Real Analysis: Modern Techniques and Their Applications, Folland, 2nd Edition
(Real Analysis, Stein and Shakarchi)

Course Description: First quarter of a three-quarter sequence covering the theory of measure and integration, point set topology, Banach spaces, L_p spaces, applications to the theory of functions of one and several real variables.

Course Website: Canvas (for homework submission) and math.washington.edu/~blwilson/524.

Grading

Homework (50 points): 5 assignments. Homework will be available Thursdays and be due exactly two weeks afterwards. For each assignment, starred problems will be graded for correctness and be worth one point each. The remaining problems will be graded overall for completeness for the remaining points.

Midterm (20 points): Wednesday, November 3, 2021 in class.

Final Exam (30 points): Comprehensive. Wednesday, December 15, 2021, 2:30 pm – 4:20 pm in PDL C-038

Miscellaneous:

- 60% of the total will guarantee a 2.0 or higher.
- 75% of the total will guarantee a 3.0 or higher.
- The grading policies described above apply to students in good standing; students who engage in misconduct will be reported to the office of Community Standards & Student Conduct. Their grades will be handled differently.

Miscellaneous

Religious Accommodation: Washington state law requires that UW develop a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The UW's policy, including more information about how to request an accommodation, is available at Religious Accommodations Policy (<https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/>). Accommodations must be requested within the first two weeks of this course using the Religious Accommodations Request form (<https://registrar.washington.edu/students/religious-accommodations-request/>).

Conduct: The University of Washington Student Conduct Code (WAC 478-121) defines prohibited academic and behavioral conduct and describes how the University holds students accountable as they pursue their academic goals. Allegations of misconduct by students may be referred to the appropriate campus office for investigation and resolution. More information can be found online at <https://www.washington.edu/studentconduct/>.

If you are uncertain about whether something is academic misconduct, ask me. I am willing to discuss any questions you might have. Acts of academic misconduct include cheating but are not limited to it. You may discuss homework with each other, but you must solve the problems yourself and everything you turn in must be your own work. Copying from solution manuals, internet sites, each other or any other source is strictly forbidden.

Access and Accommodation: Your experience in this class is important to me. If you have already established accommodations with Disability Resources for Students (DRS), please communicate your approved accommodations to me at your earliest convenience so we can discuss your needs in this course.

If you have not yet established services through DRS, but have a temporary health condition or permanent disability that requires accommodations (conditions include but not limited to; mental health, attention-related, learning, vision, hearing, physical or health impacts), you are welcome to contact DRS at 206-543-8924 or uwdrs@uw.edu or disability.uw.edu. DRS offers resources and coordinates reasonable accommodations for students with disabilities and/or temporary health conditions. Reasonable accommodations are established through an interactive process between you, your instructor(s) and DRS. It is the policy and practice of the University of Washington to create inclusive and accessible learning environments consistent with federal and state law.