

Math 8340 Functional Analysis 2

Spring 2009

Course Instructor: Dr. Markus Pflaum

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Lecture hours and Venue: MWF 10:00 a.m. - 10:50 a.m., ECCR 116.

Office Hours: MW 1:00 p.m. - 2.00 p.m. and by appointment

Course Prerequisites: Math 8330.

Textbook: Walter Rudin, *Functional Analysis*.

Course Homepage: <http://www.colorado.edu/math/courses/pflaum/FunctionalAnalysisII.LecSpring09>

Course Contents: Introduces elements of operator theory and the spectral theorem for selfadjoint operators. Some applications of spectral theory to the mathematics of quantum mechanics are provided.

Assignments: Several problems will be assignment in the course. Every student has to write a paper one a certain number of these problems. The solution papers will be graded.

Course Grading: Your grade will be determined from the graded problem solutions.

Students With Disabilities: If you qualify for accommodations because of a disability, please submit to me a letter from Disability Services in a timely manner so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, and <http://www.Colorado.EDU/disabilityservices>.

Disability Services' letters for students with disabilities indicate legally mandated reasonable accommodations. The syllabus statements and answers to Frequently Asked Questions can be found at <http://www.colorado.edu/disabilityservices/accommodations.html>.

Missed Exams: If you know that you are going to miss a midterm exam or cannot take the final exam at the scheduled time for a valid reason, please notify me at least two weeks in advance. If you miss a midterm exam without an acceptable reason (e.g. religious obligation, documented illness), you will be given an "F" for that midterm. If you miss the final exam without a documented excuse, you will score zero on the final.

Religious Observances: Campus policy regarding religious observances requires that faculty make every effort to reasonably and fairly deal with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. In this class, you should notify me of any conflict at least two weeks in advance.

See full details at http://www.colorado.edu/policies/fac_relig.html.

Student Classroom and Course-Related Behavior: Students and faculty each have responsibility for maintaining an appropriate learning environment. Students who fail to adhere to such behavioral standards may be subject to discipline. Faculty have the professional responsibility to treat all students with understanding, dignity and respect, to guide classroom discussion and to set reasonable limits on the manner in which they and their students express opinions. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender variance, and nationalities. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that appropriate changes may be made to the records. See policies at <http://www.colorado.edu/policies/classbehavior.html> and at http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code.

Honor Code: All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council (honor@colorado.edu; 303-725-2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). Other information on the Honor Code can be found at <http://www.colorado.edu/policies/honor.html> and at <http://www.colorado.edu/academics/honorcode/>.

Statement on Discrimination and Harassment: The University of Colorado at Boulder policy on Discrimination and Harassment (<http://www.colorado.edu/policies/discrimination.html>), the University of Colorado policy on Sexual Harassment and the University of Colorado policy on Amorous Relationships applies to all students, staff and faculty. Any student, staff or faculty member who believes s/he has been the subject of discrimination or harassment based upon race, color, national origin, sex, age, disability, religion, sexual orientation, or veteran status should contact the Office of Discrimination and Harassment (ODH) at 303-492-2127 or the Office of Judicial Affairs at 303-492-5550. Information about the ODH and the campus resources available to assist individuals regarding discrimination or harassment can be obtained at <http://www.colorado.edu/odh>.