Math 4730: Set Theory, Spring 2009

Text: Introduction to Set Theory, Third Edition, Revised and Expanded, by Hrbacek and Jech

Section 001: MWF 9:00–9:50 ECCR 118

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Hours: MWF 10-11	**WWW:** http://spot.colorado.edu/~kearnes

Course Description: Studies in detail the theory of cardinal and ordinal numbers, definition by recursion, the statement of the continuum hypothesis, simple cardinal arithmetic, and other topics chosen by the instructor.

Prerequisites: Math 2001 (Discrete Mathematics), Math 2400 (Calculus 3), or Math 3000 (Introduction to Abstract Mathematics).

Homework and Exams: During the semester there will be regularly assigned homework, one midterm and a final exam. Your course grade will be computed according to the formula: **Grade** = **HW**(40%) + **Mid**(20%) + **Final**(40%). You must take the final exam to pass the course. Late homework will not be accepted. I will not count your two lowest homework scores.

Grading: You will be graded only on your written work. This work will be judged on the basis of correctness, completeness and legibility. Strings of formulas without explanation will not be accepted. Paragraph organization (where appropriate), complete sentences and correct punctuation are expected.

Dates:

Homework:	Usually due Wed	Spring Break:	Mar 23–27
MLK Jr. Day:	Jan 19	Last Day:	May 1
Mid term:	Mar 6	Final Exam:	May 4(7:30pm)

Getting Help: Don't wait until it is too late if you need help. **Ask questions!** I am available during the office hours listed above and also at many other times. If you can't see me during office hours, then make an appointment with me to see me at a different time. I will also give short answers to questions sent by email.

WWW: Information concerning our class will be posted on my web page under the link for **Teaching**. A copy of any document I hand out in class will be accessible from this page.

Classroom Behavior: The CU classroom behavior policy can be found at `http://www.colorado.edu/policies/classbehavior.html`

Students with Disabilities: Students with disabilities who qualify for academic accommodations must provide a letter from Disability Services (DS) and discuss specific needs with me, preferably during the first two weeks of class. DS determines accommodations based on documented disabilities (303-492-8671, Willard 322, `http://www.colorado.edu/disabilityservices`).

Observance of Religious Holidays: If, because of religious obligations, a student has a conflict with scheduled exams, assignments, or other required attendance, the student should notify me at least two weeks in advance of the conflict to request special accommodation. I will provide the opportunity for a makeup exam or an equivalent assignment, or arrange for an increased flexibility in assignment due date.

Honor Code: Details of the Student Honor Code system can be found at `http://www.colorado.edu/academics/honorcode/` and `http://www.colorado.edu/policies/honor.html`. Sanctions for honor violations may include: a failing grade for a particular assignment; a failing grade for a particular course; and/or suspension for various lengths of time or permanent expulsion from the university.

The university administration has asked faculty to provide clear, explicit and detailed instructions about what constitutes plagiarism. In this course we will adhere to the definition drafted by the CU Law School: Plagiarism is the use of any written material which is submitted in a manner which purports or suggests that it is the work and effort of the person submitting it and that it was prepared by him or her as part or all of the task of completing the assignment, but which material is in substance the work of another or is material previously prepared by the student and which was previously submitted for, and which received, academic credit of any kind and the subsequent use of such material was not, in advance, specifically authorized by the faculty member for whom the work was being done.