Math 3220 §1   Foundations of Analysis   II   January 4, 2013

                MTWF 11:50 - 12:40 in JWB 308.

Instructor: A. Treibergs, JWB 224, 581 8350.
                Office Hours: 10:45-11:45 MWF (tent.) & by appt.
                E-mail: treiberg@math.utah.edu
                Homepage: http://www.math.utah.edu/~treiberg/M3224.html

Text: Joseph L. Taylor, "Foundations of Analysis," American
                Mathematical Society, Providence, 2012.

Grader:

Prerequisites

                Math 3210 or consent of instructor.

Grading

    Homework: To be assigned weekly.

                Homework, due Fridays, will be collected in class.
                Papers turned into the grader's mailbox in the Math
                mail room (JWB 228) by 3:00 PM Fridays before the
                grader leaves will be regarded as being turned in on
                time. Homework that is late but not more than one week
                late will receive half credit. Homework that is more
                than one week late will receive no credit at all.

    Exams: We vote in class whether exams are closed book, open book
                or cheat sheet. "Cheat sheet" means on exams you will be
                allowed to bring in a "cheat sheet,"
                a single 8.5" x 11" page of notes. The exams will otherwise
                be closed book: no calculators, laptops, text messangers,
                other notes or books will be allowed.

    Midterms: There will be three in-class one-hour midterm exams
                on Wednesdays Jan. 30, Feb. 27 and Apr. 3.

    Final Exam: Th., May 2, 10:30 - !2:30. Half of the final will
                be devoted to material covered after the third midterm
                exam. The other half will be comprehensive. Students
                must take the final to pass the course.

Course grade: Best two of three midterms 40% + homework 30% + final 30%.

Withdrawals: Last day to drop a class is Jan. 16. Last day to add a
                class is Jan. 22. Until Mar. 1 you can withdraw from
                the class with no approval at all. After that date you
                must petition your dean's office to be allowed to
                withdraw.

ADA: The Americans with Disability Act requires that
                reasonable accommodations be provided for students
                with cognitive, systemic, learning and psychiatric
                disabilities. Please contact me at the beginning of
                the quarter to discuss any such accommodations you
                may require for this course.

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Objectives: To refine our skill at proof and facility with
                  computation, to gain an appreciation for abstraction
                  from the concepts of topology and metric spaces, and
                  to learn the theory behind multidimensional calculus.

Topics: We shall try to cover the following chapters

     Chapter 7. Convergence in Euclidean Space
     Chapter 8. Functions on Euclidean Space
     Chapter 9. Differentiation in Several Variables
     Chapter 10. Integration in Several Variables