Math 3210 - 2   Foundations of Analysis I   January 10, 2014

                 M, T, W, F, 11:50 AM - 12:40 PM in NS 205.

Homepage: http://www.math.utah.edu/~treiberg/M3215.html

Instructor: A. Treibergs, JWB 224, 581 - 8350.
                 Office Hours: M, T, F 12:55 - 1:45 PM (tent.) &
by appt.

                 E-mail: treiberg@math.utah.edu

Prerequisites: "C" or better in (MATH 2210 OR MATH 1260 OR MATH 1280)

                 AND (MATH 2200 OR MATH 2270 OR MATH 2250)

Texts: Joseph L. Taylor, Foundations of Analysis,
American

                 Mathematical Society, Providence 2012.
                 ISBN 978-0-8218-8984-8

Grading

   Homework: To be assigned weekly.

                 Homework will be due Fridays and will be
collected in

                 class. Papers turned into the grader, Joshua
Keeler's

                 mailbox in the math mail room (JWB 228) by 2:50
PM Fridays

                 before he 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: Exams will be open book. You will be allowed to bring the

text, your notes and homework papers. No calculators,

laptops, tablets, phones, text messaging devices, or other

books will be allowed.

Midterms: There will be three in-class one-hour midterm exams

on Wednesdays Jan. 29, Feb. 26 and Apr. 2.

Final Exam: Fri., Apr. 25, 10:30 AM - 12:30 PM. 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% + HW 30% + final 30%.

Withdrawals: Last day to drop class is Jan. 15. Last day to register

is Jan. 21. Until Feb. 28 you can withdraw from 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 students

reasonable accommodations be provided for psychiatric

with cognitive, systemic, learning and of

disabilities. Please contact me at the beginning

the quarter to discuss any such accommodations

you
            may require for this course.

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Objectives: To cover the theory of one variable calculus and
to
               train the student in essentials of the
professional
               mathematician: logic, proof and how to write a
               mathematical argument.

Topics: We shall try to cover the following chapters

        Chapter 0 - Review Sets, Logic, Quantifiers, Functions.
        Chapter 1 - The Real Numbers
        Chapter 2 - Sequences
        Chapter 3 - Continuous Functions
        Chapter 4 - The Derivative
        Chapter 5 - The Integral
        Chapter 6 - Infinite Series