MATH 3150, ANALYSIS I
University of Connecticut
Fall 2015

Instructor:
Vasileios Chousionis
Office: MSB M423
Email: `vasileios.chousionis@uconn.edu`
Webpage: `http://www.math.uconn.edu/~chousionis`

Office Hours: TuTh 11:00-12:00 and by appointment.

Lectures: MSB 303, TuTh 9:30-10:45

Textbook: Kenneth A. Ross, *Elementary Analysis: The Theory of Calculus* (Undergraduate Texts in Mathematics), Springer, 2nd ed. 2013.

Other recommended books:

- *Introduction to Real Analysis*, by Bartle and Sherbert, Wiley and Sons.
- *Introduction to Analysis*, by Rosenlicht, Dover Publications.

Course Description: A rigorous introduction to the theory of real functions. The objective is to understand why theorems, such the ones you learned in Calculus I, are true by thoroughly understanding their proofs. The topics we are going to cover include: mathematical induction, sequences and series, continuity, differentiation, integration, exponential and logarithmic functions.

Prerequisites: *According to the University of Connecticut course catalog*: MATH 2142(244), a grade of C or better in MATH 2710(213), or 214; MATH 2410(211) or 2420(221).

Exams: There will be two in-class midterm exams and a cumulative final exam. If you have a *legitimate and documented* conflict with either the scheduled time for some of the midterms, you must let me know within the first two weeks of class in order to consider situation. If you have a conflict with the time of the final, you must receive permission from the Office of Student Services and Advocacy (OSSA) to be considered for rescheduling; once you have received approval from OSSA for a final exam rescheduling, you must get in contact with me and arrange a new date and time to take the final exam.

Quizzes and Homework: There will be two kinds of homework: weekly homework which will be assigned every Tuesday but it will not be collected, and revision homework which will be assigned one week before each exam and it will be due the day of the exam. In order to motivate you and test your understanding of the homework problems there will be weekly quizzes which will be strongly based in the assigned (weekly) homework. The quizzes will take place every Tuesday during the

first 15 minutes of class. Your two lowest quiz scores will be dropped and there will be no make up quizzes, except if there is a legitimate and documented reason.

Grading Policy: Grades will be determined as follows:

- Quizzes and Homework: 20 %
- Midterm 1: 25%
- Midterm 2: 25%
- Final Exam: 30%

Academic Honesty: `http://community.uconn.edu/academic-integrity-undergraduate-faq/`