

Syllabus

The aim of this course is to learn to read and write mathematical proofs in the context of the real numbers and real valued differentiable functions of a real variable. The course will cover the first 5 chapters in our primary text by Marsden and Hoffman. We will also cover the first 43 pages in Landau's book and occasional supplements from the counterexamples in Gelbaum and Olmstead.

Grading is based on the exams (80%), and the homework exercises (20%). Homework is to be turned in every Monday and should have clear evidence of organized effort on the problems. Thus, it is not a grade on number correct but rather on number "wrestled with". Examinations will closely resemble the homework exercises. There will be two midterms at about 5 week intervals and a comprehensive final (worth double).

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