18.014 Calculus with Theory
Course Information

Instructors: Dr. Grace Lyo (TA: Dr. Liat Kessler)

Prereqs: We will assume a working knowledge of single-variable calculus, but no familiarity with proofs.

Description: We will cover the same material as 18.01 but with an emphasis on proofs and conceptual understanding rather than computation.

Textbook: Calculus, Vol. 1 (2nd Ed) by T. Apostol; available at the Coop
Course Notes; available at CopyTech 11-004

Lectures: TR 1-2, F 2-3 in room 2-147

Recitations: 1. MW 2-3 in room 24-121
2. MW 3-4 in room 24-121

Exams: There will be three in-class, one-hour exams
1. Friday, 10/2
2. Friday, 10/30
3. Friday, 11/20
There will be one three-hour comprehensive final exam, date TBA.

Grading: 25% Homework
40% Midterms
30% Final exam
5% Participation
In addition, to pass the course, you must make a reasonable effort on at least 7 of the problem sets and pass the final. The lowest two pset scores will be dropped.

PSets: Due every Thursday, 1 PM in 2-106 unless otherwise stated.
Collaboration encouraged. However:
1. Do your write-up separately
2. List your collaborators.
Late homework not accepted; this is what the two dropped scores are for. Assigned reading covered in lecture may be skimmed.
Advice: Start your problem sets early!

Website http://math.mit.edu/~gracelyo/18014