Math 2143 Fall 15

Teacher: Iddo Ben-Ari
Lectures: TuTh 12:30-13:45 MSB 219
Office: Tu 14:30-15:45, M 9:00-10:00 and by appointment.
TA: Fan Shum
Discussion M 12:20-13:10 MSB 307
Office hours: TBA
Grader: Rachel Lonchar

Syllabus

Ch. 1-5,7-9 in Calculus, Vol. II by Tom Apostol, 2nd ed.
Rigorous treatment of more advanced topics, including vector spaces and their application to multivariable calculus and first-order, second-order and systems of differential equations.

Grade
20% Homework - assigned every Thursday. To be submitted on Tuesday 12 days later during lecture, office hours or by special arrangement with grader.
You can and are welcome to work in groups, but you cannot submit group work.
25% First midterm : Monday October 5th during discussion.
Material: Ch. 1, and Ch. 2 up to 2.9, inclusive.
25% Second midterm : Monday November 16th during discussion.
Material: Ch. 2.13,2.14,2.15,2.17,2.18,2.19
Ch. 3, except 3.16.
Ch. 4
Midterms are based on HW (not identical questions), plus one or two (no more that 25% of total) of "new" questions.
40% Final exam (TENTATIVE, verify with registrar) : Friday December 18th 10:30-12:30.

You input is valuable and very welcome.

Homework

Practice Midterm (w/solutions)

8. (Oct 30th).

4.4 1,2,4,9,10
4.8 6,7,13

7. (Oct 23th).
3.11 1,3,5
3.17 4,6
solutions

6. (Oct 16th).
3.6 1, 2,5,9,10
solutions

5. (Oct 8th) Welcome back.
2.16 7,8,9,14
2.20 9,12,15
2.21 7,8
solutions

Midterm 1 (w/solutions)

Practice (w/solutions) for Midterm 1, and my older exams:
Fall 2012
Fall 2013 (only 3 and 4)

4. (Posted September 24th, to be submitted October 13th).
2.12 4,5,8,19
solutions

3.
2.4 11,15,20,23,24,25,28,29
2.8 19,20,26,30
solutions

2.
1.13: 2-6,11
1.17: 2,4
solutions

1.

1.5: 1,2,3,7,14,15,17,21,23
1.10: 2,5,6,9,14,15,18,20,22,24
solutions