Course Title: Advanced Calculus II

Catalog Description: Sequences, continuity, compactness, completeness, differentiation and integration in $\mathbb{R}^n$, implicit and inverse function theorems, line and surface integrals, theorems of Green, Gauss and Stokes.

Meeting time and place: Mondays and Wednesdays 4:00-5:40 PM in HR 11.

Instructor Information:

- Name: Arthur Szlam
- Office hours: Monday, 1:00-2:00 pm.
- Office: NAC 6202 D
- Email: aszlam@ccny.cuny.edu

Course Textbook:

- Advanced Calculus by Folland.

Grades: Grades will be computed from the following:

- Homework assignments (30%)
- Midterm (30%).
- The final exam (40%).

Your final score will be tabulated as indicated by the percentages above. A curve will then be applied to determine your final letter grade.

Course information: Course information can be found at http://sci250.sci.ccny.cuny.edu/~aszlam/teaching/2014-spring-324/. This site includes a list of homework assignments, a tentative course calendar and a list of course documents.

General expectations: For each hour spent in the classroom, you should spend at least two hours reading and understanding the book, understanding lecture notes, and doing homework. Please read the sections to be covered in class before and then again after the lecture. The importance of working problems cannot be overstated; you learn all math by doing it.

Final exam: The final exam will be held on *****. Ensure that you have no time conflicts. A makeup for the final exam is offered only under extremely compelling circumstances. Notify me as soon as you know you will have to miss the final.

Midterms: You will be given the full class period to complete each midterm. If a midterm is missed under well documented and sufficiently compelling circumstances, then a makeup can be taken. Notify me ahead of a midterm you expect to miss to be sure your circumstances are sufficiently compelling. A grade of zero will be assigned to anyone who does not take a midterm or a makeup.

Homework assignments: The single most important part of this course is the homework. Homework assignments will be made available on the course website at least one week before the assignment is due. If you would like, you may discuss the homework problems with other students; however, when you go to write up your homework, you must do so without any help from any other students (or other sources). You must cite any sources of help you recieved other than the class textbook, the lectures, or myself. In any case, you should be confident that you understand how to do each problem, and should be able to
solve similar problems independently. Failure to ensure that you can solve problems independently will surely have a negative effect on exam grades. Homework will be collected at the beginning of the class it is due. Late homework will not be accepted. The lowest two homework grades will be dropped from computations of your final grade. Homework problems will be graded partially on presentation; the goal of this class is not just that you can think about mathematics clearly enough to write a proof, but that you can effectively communicate your mathematical ideas to others.

**Academic integrity:** You must cite any source of help on your homework assignments, other than the class textbook, the lectures, or myself. This includes mentioning students you collaborated with, other texts, and online courses. You should not get any help from any source on the midterms and exam except your own knowledge, the exam itself, and sources that I explicitly allow. In general, you are expected to adhere to the CUNY Policy on academic integrity. This policy is posted at [http://www1.ccny.cuny.edu/current/integrity.cfm](http://www1.ccny.cuny.edu/current/integrity.cfm). Failure to follow these rules will iritate me greatly and probably lead to serious sanctions.