# Course Information Sheet:
# Spring 2014, Math 39200, Section F

**Course Title:** Linear Algebra and Vector Analysis for Engineers

**Course Description:** Matrix theory, linear equations, Gauss elimination, determinants, eigenvalue problems and first order systems of ordinary differential equations, vector field theory, theorems of Green, Stokes, and Gauss.

**Meeting time and place:** Mondays and Wednesdays 3:30 - 4:45 PM in NAC 4/113.

**Instructor Information:**

- **Name:** Prof. Hooper
- **Office hours:** Mondays and Wednesdays 1-1:50pm on any day our class meets. Appointments are also accepted. (Office hours are subject to change. Check the course website for up to date information.)
- **Office:** NAC 6/282
- **Email:** whooper@ccny.cuny.edu
- **Office Phone:** (212) 650-5149

**Course Textbooks:**

- *Essential Calculus, 2nd edition* by Stewart. You only need chapters 12-13 and a small part of chapter 10. You can buy these chapters from:
  `http://www.cengagebrain.com/shop/isbn/9781133112297`
- *Linear Algebra for Calculus, 2nd edition* by Heuvers, Francis, Luisti, Lockhart, Moak, Ortner.

**Grades:** Grades will be computed from the following:

- Attendance (See the attendance policy below.)
- Quizzes (20%)
- Two midterms (20% each) held on Monday, March 24th and Monday, May 12th.
- The final exam (40%) held Thursday, May 22 from 3:30 pm - 5:45pm.

Your final score will be tabulated out of 100% as indicated by the percentages above. A letter grade will be assigned to you according to the table below.

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|---|---|---|---|---|---|---|---|---|---|
| A+ | 97-100 | B+ | 87-89 | C+ | 77-79 | D | 60-69 | F | 0-59 |
| A | 95-96 | B | 84-86 | C | 74-76 | | | | |
| A- | 90-94 | B- | 80-83 | C- | 70-73 | | | | |

**Course information:** Course information can be found on the website:
`http://wphooper.com/teaching/2014-spring-392/`
This site includes a list of homework assignments, a tentative course calendar and a list of course documents.

**Blackboard:** A record of your grades in this course can be found on blackboard. To access blackboard visit `http://bbhosted.cuny.edu/`. Please let me know if you have trouble accessing blackboard, or trouble using the blackboard website.

**Email:** It is important that you are accessible via email through blackboard.

**General expectations:** For each hour spent in the classroom, I expect you to spend at least two hours reading and understanding the book, understanding lecture notes, and doing homework. Practice (doing problems and proofs) is an important part of understanding mathematics. Only adequate practice will guarantee that you can complete midterm and exam problems in a timely manner.

**Final exam:** The final exam will be held on Thursday, May 22 from 3:30 pm - 5:45pm. 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. The makeup must be taken within one week of the originally scheduled midterm. A grade of zero will be assigned to anyone who does not take a midterm or a makeup.

**Quizzes:** There will be a quiz nearly every Monday on recent material covered. Days with quizzes are listed on the calendar page of the course website.

**Quiz grades:** There will be no makeup quizzes. The lowest three quiz grades will be dropped.

**Homework:** Homework assignments will be posted on the course website and announced in class. Homework will not be collected, but it is important for keeping up in the class.

**Attendance:** As students, class is extremely important for learning. You will be introduced to the material, and the relative importance of topics in the course will be revealed. For this reason, attendance is mandatory and factors into your grade. Missing an excess of eight 50 minute periods (or 4 classes) may result in you being dropped from the course, and will certainly result in a reduction of your final score by 5%. Occasionally, exceptions to this policy will be made, but only for good reason and only with notification prior to the absence. Good reasons include illness with a doctor's note and many religious observations.

**Lateness:** Lateness to class in unacceptable because it disrupts the learning process of the whole class. For this reason, any student who arrives more than 5 minutes after class begins will be considered late. Three late attendances are considered the equivalent of one absence. Thus, sufficiently many late attendances will result in actions as described in the Attendance policy. In addition, any student who arrives 15 minutes after a class begins will be considered absent from that class period.

**Academic integrity:** You are expected to adhere to the CUNY Policy on academic integrity. This policy is posted at:

`http://www.ccny.cuny.edu/about/upload/academic_integrity.pdf`

**Doing well:** Here is a basic description of how to do well in the course.

- Read the sections as they are covered in class. Then do the homework. Come to class with questions if you have any.
- Quizzes occur nearly every Monday. Make sure you are up-to-date on your work at that time.
- This course has a fairly difficult final which varies little each semester (like other math courses you may have taken at CCNY). It is important to keep this in mind as you move through the course, which will prepare you for it.
- Quizzes and Midterms will test problems very similar to what is asked on the common final.
- As you near the end of the semester, start trying to do the past final exams which appear on the department's course webpage:

  `http://math.sci.ccny.cuny.edu/course/list`