Information Sheet for Math 392

Course: Math 392, Linear Algebra and Vector Analysis for Engineers, Fall 2017
Time: 392K Tues/Thurs 8:00–9:15 in NAC 1/203
Instructor: Dr. Cleary
Office: NAC 8134  Phone: 650-5122
Tentative Office Hours: Tues 7:30-8:00am, Tues 9:15am-10am, Thurs 9:15-10am and by appointment. Check webpage for updated info.
ISBN # 1133112293. We will primarily use Chapter 13.
Additional Text: Heuvers *et al*, *Linear Algebra for Calculus*, Brooks-Cole. ISBN #0534252486 Available at much less expense used.
Sections Covered: parts of Chs. 10 and 12, all of Ch. 13 of Stewart, Ch. 1-7 of Heuvers
Optional Supplement: Adams, Hass, & Thompson *How to Ace the Rest of Calculus*
Prerequisite: a thorough knowledge of the topics of calculus from 201, 202, and 203
Email: cleary@sci.ccny.cuny.edu
Class website:  http://www.sci.ccny.cuny.edu/~cleary/math392
Department website:  http://www.math.sci.ccny.cuny.edu

The grading of your work during the semester will be as follows:

- **Homework (10%)**
- **Participation/Quizzes (10%)**
- **Exam 1 (10%)**: Thursday, Sept 28th
- **Exam 2 (15%)**: Tuesday, Oct 31st
- **Exam 3 (15%)**: Thursday, Nov 30th
- **Final Exam (40%)**: Thursday, December 14, 3:30 pm - 5:45 pm

**Final Exam**: The final exam will be a departmental group final. Some old final exams are available on the department website. Note: you must pass the final exam to pass the course.

**General Expectations**: For each class hour spent in classroom lecture, I expect at least two hours spent outside of class reading and understanding notes from lecture, reading the book, and working on the homework. Math 392 is a difficult class not only because the topics are challenging, but also because there are so many topics. Furthermore, some of the topics are considerably more abstract than the topics in earlier courses and it will take more work and energy to understand them competently. I expect all students to attend all classes and do all the homework.

**Exam Policy**: All exams are closed book. Notes, calculators and books will not be allowed. Campus photo ID will be required at all exams. There are no make-up exams. If you are going to miss an exam, it is your obligation to let me know as soon as reasonably possible beforehand. On the exams, it will be your obligation to demonstrate that you know how to solve the problems.
The exams may consist of some problems similar to the homework and also some more difficult ones that will require some creativity to solve completely and efficiently.

**Important Note on Grade Computation for exams during the semester:** If you do better on a later exam than an early exam, that exam grade can take the place of the earlier exam grade. This can happen at most once, so if there are several possibilities, it will happen only in the way which results in the highest grade for you. This applies only to the in-class exams, not the final exam. Be warned, though, that the later material will be difficult and often depend on the earlier material, and thus it is a fundamentally bad idea to count on doing better later in the term.

**Homework Policy:** Homework will be assigned in lecture each week and will be posted on the website for this class. Written homework will be collected at the beginning of class, and electronic homework will be due before class begins. I expect students to arrive on time and turn in their homework at the beginning of class. Late homework will not be accepted. To accommodate possible difficulties and student time constraints over the course of the semester, the lowest two homework scores will not count. Since it is not feasible to grade all of the assigned homework problems, only a select few problems will be graded on each assignment. Your homework should be neatly stapled and clearly labelled with your name, the assignment number, ‘Math 392’, and “Dr. Cleary”.

**Timeliness:** Any issues with missing homework grades not appearing on the online Blackboard system or concerns about any grading must be resolved in a timely manner, within two weeks of the graded work being returned.

**Front Row Duty:** The participation grade will largely be based upon Front Row Duty. Each lecture after the first week, there will be about 10 people who will be on Front Row Duty. The names will be announced in advance and we will cycle through the entire class several times over the course of the semester. Students on Front Row Duty are expected to sit in the front row and answer questions about the material as it is presented. This will give everyone a chance to participate and will help as we learn each other’s names.

**General Advice:** This class will require a great deal of time because we will cover many topics over the course of the semester. Lectures and homework will be an essential part of this class. If you do not have adequate time to devote to this class, please consider postponing this class until a semester in which you will have sufficient time. Remember the words of Dostoyevsky: “Originality and a feeling of one’s own dignity are achieved only through work and struggle.”

**Academic Honesty:** All work submitted for this course should be your own unless explicitly stated or acknowledged by you. If you collaborate with other students on the homework or use reference materials other than the text, you must acknowledge the help. This is not necessarily bad, but if you work with other students on the homework you must mention their names and how they helped. You are permitted to work with other students in the class on homework assignments, but this permission only applies to cooperative work, not to work done by one student and merely copied by another. See the webpage at [http://www.ccny.cuny.edu/about/integrity.cfm](http://www.ccny.cuny.edu/about/integrity.cfm) for more specifics about the campus integrity policy and procedures. All violations of academic integrity are pursued vigorously to be fair to the students who comply with the regulations.

**Math Department Free Tutoring:** The Math Department has the Math Help Desk in Science 418 which has free tutoring for many courses, including 392. Hours TBA.