

# Information Sheet for Math 213

**Course:** Math 213, Calculus III with Vector Analysis, Fall 2022

**Time:** CD: Mon/Wed 12pm–1:40pm, EF: Mon/Wed 2pm–3:40pm

**Instructor:** Professor Cleary

**Office:** Marshak 301     **Phone:** 650-5122

**Tentative Office Hours:** Mon 3:40pm–4:30pm, Wed 3:40pm and by appointment. Check my webpage for the latest information about office hours.

**Text:** Thomas' Calculus: Early Transcendentals (14th ed.), Haas, Heil, and Weir (Pearson), ISBN-13: 978-0134439020 list price \$299, currently \$198 new at Amazon, less used and elsewhere, on library reserve, available “for rent” for the term for about \$30 currently. Available for CCNY students: \$80 for electronic version, or \$115 for looseleaf paper copy, both including required MyLab homework system access. See instructions sent to enrolled students.

**Sections Covered:** Material in chapters 13, 14, 15 and 16.

**Prerequisite:** a thorough knowledge of the topics of calculus from 212

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**Main Website:** <https://profcleary.github.io/math213/>

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

- **Homework: (10%)**
- **Participation/Quizzes: (10%)**
- **In-person written Exams: (40%)**  
Anticipated in-person exam dates: Wed, Sep 21st, Wed, Nov 2nd, Wed, Nov 30th.
- **In-person Final Exam: (40%)** TBA, in 12/15–21, departmental group final.

**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 213 is a difficult class not only because the topics are challenging, but also because there are many different 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 attempt all the homework assignments.

**Exam Policy:** 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 will consist of some problems similar to the homework and also some more difficult ones that will require some creativity to solve completely and efficiently. I will not expect every student to answer every question completely correctly, but I do expect students to know the material well enough to make reasonable progress even on difficult problems.

**Important Note on Assessment On-line:** There is uncertainty in the face of campus procedures related to the pandemic. We anticipate lectures and exams being in-person. It is possible that other examination methods may be required. This course may use online

examination methods, may give some examinations as oral exams, and may require the use of video cameras during exams. There may be oral exams during the term and as part of the final exam. For these, students will be expected to fluidly answer, in an interactive video exchange, questions from the course similar to those done on the homework and exams. Students who decline to take oral exams cannot get a grade of better than C in the course. If online examinations are given in this course, the exams will be given synchronously (at the time in which the class usually meets) or as scheduled in advance.

**Homework Policy:** Homework will be assigned in lecture each week and will be posted on the website for this class. The first homework is due on the Wednesday of the first week. Homework will be due before the beginning of class. I expect students to arrive on time and submit their homework before the beginning of class. Late homework will not be accepted. Because of this policy, the lowest two homework scores will not count.

**Participation:** This component of the grade will be based upon meaningful, productive participation in class. This can be during lecture or in the Blackboard forum for the class.

**General Advice:** This class will require a great deal of time because we will cover many topics over the course of the semester. Lectures, homework, and quizzes 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 texts, you must acknowledge the help. If you work with other students on the homework you must mention their names and how they helped. If the homework section does not have a place to mention sources used, you must send email explaining your use of outside materials before the deadline of the assigned work. If you consult online materials, you must describe those materials and how they were used. If you find that you are not able to do the homework without consulting other students, you will have great difficulty on the exams, quizzes, and with the participation components of the course. You are permitted to work with other students in the class, but this permission only applies to cooperative work, not to work mainly done by one student and mostly copied by another. All violations will be pursued through the appropriate campus mechanisms and allowing one’s work to be copied is as serious a violation as copying another’s work. Most commonly, the recommended sanctions for any academic integrity violations are failure for the course, and suspension or dismissal from the College.

**Preparation:** Note that with changes to the syllabi at CCNY for Math 201: Calculus I and Math 212: Calculus II, if you took Math 201 and 212 a while ago or if you took a course rated approximately equivalent to CCNY’s Math 201 or 212, there are very likely some topics that were not covered in your earlier course that are required in Math 213. It is your responsibility to master those topics. If there are gaps in your preparation, you should address those immediately before the term starts or very early in the term, as it will not be practical to learn the prerequisite material while also trying to learn the new essential material in Math 213. The likely areas of missing prerequisite material are vector operations, the geometry of space (including quadric surfaces, cylindrical and spherical coordinates) and partial derivatives, but there may be other gaps in student preparation as well.