## Information Sheet for Math 212

Course: Math 212, Calculus II with Introduction to Multivariable Functions, Fall 2021

Time: CD: Mon/Wed 12pm-1:40pm online EF: Mon/Wed 2pm-3:40pm online

**Instructor:** Professor Cleary

**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.

Sections Covered: Material in chapters 7, 8, 10, 11, 12, and 14. **Prerequisite:** a thorough knowledge of the topics of calculus from 201

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

• Homework: (10%)

• Participation/Quizzes: (10%)

• Oral and Written Exams: (40%)

• Final Exam: (40%)

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 212 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 will 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.

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 Thursday 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:** The participation component of the grade will be based upon meaningful, productive participation in 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 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.

Preparation: Note that with changes to the syllabus at CCNY for Math 201: Calculus I, if you took Math 201 a while ago or if you took a course rated approximately equivalent to CCNY's Math 201, there are very likely some topics that were not covered in your earlier course that are required in Math 212. 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 212. The two likely areas of missing prerequisite material are transcendental functions (trig and exponential functions, their inverses, derivatives and integrals) and integration techniques and applications, but there may be other gaps in preparation as well.