

**Math 219 — Multivariable Calculus**  
**Syllabus**  
Spring Semester, 2022–2023  
Nigar Tuncer

Class time: MWF 12:00–12:50  
Class location: ROS-A310  
Office: HLC-2323 (Carey Building)  
Office Hours: W: 11:00–11:50 (in person). T: 10:00–12:00 (on Zoom)  
email: [notesma@rit.edu](mailto:notesma@rit.edu)

## Course Description

This course is principally a study of the calculus of functions of two or more variables, but also includes the study of vectors, vector-valued functions and their derivatives. The course covers limits, partial derivatives, multiple integrals, and includes applications in physics.

## Prerequisites

C- or better in MATH-173 or MATH-182 or MATH-182A or equivalent course.

## Textbook

*Stewart, Calculus, Early Transcendentals, 8e, Brooks/Cole*

- Note, you do NOT need to purchase anything other than the book, we will be using WeBWorK, a free online system.
- Any version of the book is acceptable (electronic, hard copy, ...) as long as it is the correct edition.
- You are expected to read the assigned section(s) from the text before each class meeting. Do not expect to understand the reading completely; your goal is to become aware of the ideas and vocabulary presented. What problems and processes are introduced? What questions are answered? You should then read a second time while working on the homework problems and a third time while studying for the quiz or test.

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## Exams and Evaluation

Your grade in this course will be determined by the following assessments:

- Final exam – 25%
- 2 preliminary exams – 40%
- Quizzes – 20%
- WeBWorK – 15%

A numerical average will be computed using the weights indicated above, and converted to a letter grade according to the scale shown below:

A 93–100%	A- 90–92%	B+ 87–89%	B 83–86%	B- 80–82%
C+ 77–79%	C 73–76%	C- 70–72%	D 60–69%	F 0–59%

## Final exam

The final exam IS cumulative, though with an emphasis on the material which has been covered since the last preliminary exam. The final exam has a 2.5 hour time block.

## Preliminary exams

Each of the preliminary exams will cover approximately 5 weeks of course content. While the preliminary exams are not cumulative, they are built upon previous material. The exams will be given in class on the following days:

- Friday, February 17th
- Friday, March 31th

If you miss an exam, you need to inform the instructor (before the regular exam time) and make a plan for the make-up exam.

## Quizzes

Quizzes will be announced via MyCourses in advance. Topics in each quiz will be announced in MyCourses. Your lowest quiz grade will be dropped. **No makeup quizzes will be offered.**

## Homework/WeBWorK

You will have a weekly WeBWorK assignment.

WeBWorK can be accessed via <https://webwork.rit.edu/webwork2/>

Please check your MyCourses announcements for the instructions.

## Extra credit

Every student will have the same opportunities to earn credit in this course via webwork, workshops, quizzes, the project, the preliminary exams and the final exam. There are **NO** other opportunities to earn credit in this course.

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## Accommodations

RIT is committed to providing academic adjustments to students with disabilities. If you would like to request academic adjustments such as testing modifications due to a disability, please contact the Disability Services Office (DSO). Contact information for the DSO and information about how to request adjustments can be found at <https://www.rit.edu/disabilityservices/>. After you receive academic adjustment approval, it is imperative that you see me during office hours so that we can work out whatever arrangement is necessary.

## Academic dishonesty

As an institution of higher learning, RIT expects students to behave honestly and ethically at all times, especially when submitting work for evaluation in conjunction with any course or degree requirement. RIT Online encourages all students to become familiar with the [RIT Honor Code](#) and with [RIT's Academic Integrity Policy](#).

## Wellness

Mental health issues ebb and flow depending on current life events, and often surface at this time in life as young people encounter new complexities and stresses, sometimes without immediate support for the first time. This can be deeply frightening, or at least confusing. First and foremost, know that you are not alone. If you are feeling overwhelmed, if you experience what seems like depression or anxiety, or if you are feeling victimized in any way, RIT has people to help you. The most effective way to manage these challenges and minimize the effect on your work and personal life, is to recognize and talk about them before they become

more intense. Please feel free to let me know if you need assistance connecting to services. For counseling and psychological services, click on the URL below:

<https://www.rit.edu/studentaffairs/counseling/>

During business hours (Monday—Friday, 8:30 am—4:30 pm), you can walk-in (2100 August Center above the Student Health Center), or call (585) 475-2261, or email [caps@rit.edu](mailto:caps@rit.edu) to schedule an appointment. For urgent matters, Counseling and Psychological Services takes walk-ins without an appointment during business hours. For urgent matters that cannot wait for business hours, call 1-855-436-1245 to speak with a mental health provider or call Public Safety at 475-3333.

## **Policy changes**

I reserve the right to change any policy I feel necessary during the semester. Any policy change will be announced in class and on mycourses.