

# MATH 2310: CALCULUS III

Spring 2023

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<b>Instructor:</b>	William E. Olsen	<b>Time:</b>	TR 9:30 – 10:45am
<b>Email:</b>	<a href="mailto:weo3y@virginia.edu">weo3y@virginia.edu</a>	<b>Place:</b>	102 Clark Hall

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**Office Hours:** I am available for questions and discussion via email and during office hours. I will hold office hours primarily during the period 11:00am – 1:30pm on Tuesday/Thursday in Kerchof Hall Room 311.

**Textbook:** *Multivariable Calculus*, 9th ed., by James Stewart

**Course Description:** A continuation of Calc I and II, this course is about functions of several variables. Topics include finding maxima and minima of functions of several variables/surfaces and curves in three-dimensional space/integration over these surfaces and curves. Additional topics: conservative vector fields/Stokes' and the divergence theorem/how these concepts relate to real world applications. Prerequisite: MATH 1320 or the equivalent.

**Written Homework:** There will be weekly hand-written problem sets posted on Canvas and will typically be due at the end of the discussion section. The written homework should be submitted by hand to your TA instructor. Late homework will **not** be accepted.

**WebAssign Homework:** WebAssign is an online platform that we'll be using throughout the course for (online) homework. You will need to purchase access to WebAssign either as part of your textbook purchase or on its own; you may also opt for an e-book version if you wish. To use WebAssign you will need to use our class key, which can be found under 'course information' on Canvas. Late homework will **not** be accepted.

**Attendance:** Attendance is mandatory. More than 3 unexcused absences will result in a 1/3 letter grade deduction (e.g. if your final calculated grade is a  $B$ , then after 3 unexcused absences your grade will be reported as a  $B-$ ). Four unexcused absences will result in a full letter grade deduction, and five or more unexcused absences will result in an automatic  $F$ .

**Quizzes:** There will be weekly quizzes covering the material recently discussed. These will typically take place during the discussion sessions.

**Exams:** There will be two in-class midterm exams and a final exam. Midterms will take place during discussion sessions and their dates will be posted on Canvas at the beginning of the semester. If you have a conflict with a midterm exam time, you must notify me as soon as possible and at least a week before the exam. According to University policy no final exam may be given early; please make your travel plans accordingly. The final exam will be cumulative.

**Grading Policy:** WebAssign Homework (6%), Written Homework (12%), Quizzes (20%), Midterm 1 (20%), Midterm 2 (20%), Final Exam (22%).

**Calculators:** No calculators will be allowed for any quizzes or exams. To best prepare for testing, it is recommended that homework problems be completed without a calculator.

**Additional resources:** In addition to office hours held by the instructor and TA, you can get help at the Mathematics Tutoring Center which will hold sessions for MATH 2310.