Syllabus of Math 2310-300 Calculus III

BASICS

Instructor: You Qi
Course Time: TuTh 12:30–13:45pm,
Office: Kerchoff Hall 305
Office Hour: MW, 10:30–11:30 am
TA: Shengkuan Yan
Discussion Session: Mon 5:00–5:50pm
TA Office Hour: TBA
Course webpage: `https://you-qi2121.github.io/mypage/spring20222310.html`.

Tel: (434)924-4936
Venue: Maury Hall 115
E-mail: yq2dw@virginia.edu

Email: sy8vb@virginia.edu
Venue: Maury Hall 115

DATES

Last day to drop class (without W): February 3
Last day to drop class (with W): March 23.
Midterm Date and Venue: Mar 3 (in class).
Courses end: May 3
Final Date: TBA

TEXTBOOK

The text is James Stewart's Multivariable Calculus, ninth edition, Cengage Learning. Note: earlier editions of this text differ in some sections and most exercises.

PREREQUISITES

After Cal I, II or equivalent courses. May not be taken after Cal I, II.

CONTENT

In Math 2310 we study the vector geometry of 3 dimensions, scalar and vector functions of 1, 2 and 3 variables, partial derivatives, directional derivatives, multiple integrals, cylindrical and spherical coordinates, parameterized curves and surfaces, gradient, divergence, curl, line and surface integrals, and the theorems of Gauss, Green, and Stokes. The contents will cover Chapters 12–16 of the textbook.

ADVICE

You are required to attend all the lectures and discussion sessions. Since our lectures may differ from the textbook, and the schedule might change in occasion. As a general principle for taking math courses, *take twice the amount of time of lectures to review what you learned in class, and do a lot of exercises!* What we hope to achieve is not only the knowledge but also the ability to think logically and independently. Feel free to let me know if some points are unclear to you and ask for more explanations. Any suggestions about the teaching will be warmly welcomed.

In case you have a conflict with any of the exams, please contact me as soon as possible and at least two weeks before the exam. I will schedule a make up exam for you in my office. In the case of an emergency evacuation during the midterm or the final exam, leave your exams in the room, face down, before evacuating. Under no circumstances should you take the exam with you.

ASSIGNMENTS

All homeworks are assigned at WebAssign. You will have received the class key for signing up at the beginning of the semester.

HELP

Should you need it, the Math Collaborative Learning Center "MCLC", is staffed with experienced undergraduate students that offer one-on-one (or small group) tutoring sessions for many of our 1000/2000/3000-level courses. The MCLC will operate in the Georges Student Center in Clemons Library, Sunday through Thursday (schedule TBD). The schedule for various courses is published at `https://math.virginia.edu/undergraduate/MCLC/`.

GRADING

Your final grade will be based on weekly assignments, quizzes, a midterm exam and a final exam. We will de-emphasize counting homeworks towards your final grade, since this is the place you are allowed to make mistakes, and get them clarified.

- Homeworks, 10 %
- Quizzes, 20 %
- Mid-term, 30 %
- Final, 40 %

ACADEMIC HONESTY

Honor is a core value of the University of Virginia, an integral part of its educational mission, and the foundation of the student experience. As such, the Honor System applies both in the classroom and beyond.

An Honor Offense is defined as any Act of Lying, Cheating, or Stealing, where such act was committed with Knowledge, and is Significant.

Students found guilty of an Honor offense are permanently dismissed from the University, and those who have graduated from the University are subject to degree revocation by the General Faculty.