

Loyola University Maryland
Department of Mathematics and Statistics
MATH 351 (Calculus III)

Sec. 01: MWF 9:00AM-9:50AM, KH 005 (MWF) and (TR) 9:25AM-10:40AM, KH 007

Instructor: Dr. Prince Chidyagwai
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Office Hours: MW 1:00 - 2:30 PM, or by appointment

Textbook: *Multivariable Calculus (7th Edition)*, by James Stewart.

Prerequisites: A grade of at least C- or better in MA252

Course Description: This course is a continuation of Calculus II (MA252) and covers multivariable calculus.

Course Objectives:

1. Find partial derivatives.
2. Find maxima/minima of functions of two variables.
3. Evaluate and apply double and triple integrals.
4. Find the equation of a tangent plane.

Topics: We will cover vectors and their geometry, functions of several variables, surfaces, curves, partial derivatives, multiple integrals, Stokes theorem and Green's theorem. This material is in chapters 12 – 16 in your text.

Exams: There will be two in-class exams and a final exam.

Grading: Quizzes - 10%, Homework - 30%, Semester Exams - 30%, Final Exam - 30%. Final grades will be determined according to the following scale:

93-100: A	90-92: A-	87-89: B+
83-86: B	80-82: B-	77-79: C+
73-76: C	70-72: C-	68-69: D+
65-67: D	63-64: D-	0-62: F

Class participation and improving performance on the exams will be considered when assigning borderline grades.

Homework: There will be three kinds of homework problems:

- WebWork problems. WebWork is a web-based homework grading system. It has some advantages (every problem gets graded, instant feedback, e.t.c) aswell as disadvantages (need to sign in, the system does not tell you where the mistake is and will not accept a perfect solution). You will have unlimited attempts on most problems; however, do not hesitate to email me with questions if you find yourself stuck on a particular problem.
- Worksheet problems. These will be done in class (usually on Thursday). You are encouraged to work with your classmates as well and ask me questions.
- Textbook problems. These will not be collected, please use them as practice problems to prepare for exams and quizzes.

It is important to keep in mind that you will learn the most by doing problems. I am there to guide you and give you the basic material that you will need to solve problems. I will drop the lowest homework score, for that reason there are no make-up homework except in the case of documented excuses.

Quizzes: There will be regular quizzes (almost weekly) during the semester. You will get a week notice before each quiz. I will drop the lowest quiz, for that reason there are no make-up quizzes except in the cases of documented excuses.

Academic Integrity and Standards of Conduct: The guidelines of academic integrity and standards of conduct are presented in the Undergraduate catalogue. The Loyola University Honor Code states that all students of the Loyola community have been equally entrusted by their peers to conduct themselves honestly on all academic assignments. In this class you may work with your peers on assigned homework. However, you should write up submissions by yourself. You may not consult your books or notes for quizzes and exams. Please refer to the Community Standards Handbook for more information and further clarification of the honor code standards, type of violations, adjudication process, and sanctions that may be imposed for violations.

Extra Help: Do not hesitate to come to my office during office hours or by appointment to discuss a homework problem or any aspect of the course. You may also want to consider tutoring offered by the department of Mathematics and Statistics. Tutoring is offered in the Math Seminar Room, Knott Hall Room 303, on Tuesday, Wednesday, and Thursday nights from 5:00-7:00 PM.

Important Dates:

Add/Drop Deadline	Friday, January 22
Withdrawal Deadline	Tuesday, April 1
Exam 1	Thursday, February 18 (in class)
Exam 2	Thursday, March 31 (in class)
Final Exam	Saturday, May 7, 1:00 PM

Student Athletes: Please provide me with your athletic travel letters indicating when you will not be able to make it to class due to athletic commitments. You will be required to make up any assignments or exams that you miss.

Learning Disabilities: Any student with a disability documented with the Disability Support Service Office (DSS) requiring accommodations in this course is encouraged to contact me as soon as possible. If you have a disability that has not yet been documented, please contact the DSS Office (410-617-2602) for assistance.