

Math 53 Multivariable Calculus
Fall 2015

Instructor: Emiliano Gómez • Office: 985 Evans • Email: emgomez@berkeley.edu

Lecture hours: MWF 10am – 11am 2050 VSLB

Office hours: Monday 11am – 12pm, Wednesday 12pm – 1pm, Friday 11am – 12pm.

Grading scheme:	Quizzes & homework	20%	Homework will be due on Fridays*
	Midterm 1	25%	Monday, Sep. 21 in class
	Midterm 2	25%	Wednesday, Nov. 4 in class
	Final exam	30%	Monday, Dec. 14 8am – 11am

* The lowest two homework scores and the lowest two quiz scores will be dropped.

Late homework will not be accepted. There are no makeup quizzes.

There will be 8 quizzes covering the following sections of the textbook:

Chapter 10, Chapter 12, Sections 14.1 – 14.4, Sections 14.5 – 14.8, Sections 15.1 – 15.5,
Sections 15.6 – 15.10, Sections 16.1 – 16.5, Sections 16.6 – 16.9

Text: Multivariable Calculus, Early Transcendentals for UC Berkeley 7th Edition
by James Stewart

Syllabus: We will follow the text very closely. We will discuss the following sections:

Chapter 10: Parametric Equations and Polar Coordinates	Sections 10.1 – 10.5
Chapter 12: Vectors and the Geometry of Space	Sections 12.1 – 12.6
Chapter 13: Vector functions	Sections 13.1 – 13.2
Chapter 14: Partial Derivatives	Sections 14.1 – 14.8
Chapter 15: Multiple Integrals	Sections 15.1 – 15.10
Chapter 16: Vector Calculus	Sections 16.1 – 16.10

See the handout “Sections that will be discussed” for more details and section names.

Pace of class: We will discuss roughly one section per lecture. In a few cases we will see two sections in one lecture. See the handout “Homework and Reading Assignments” for a time table of reading and homework assignments for the course.

I strongly advise you to keep up with the lecture and the reading. The course is fast paced, so it could be hard to catch up if you fall behind.

Please always feel free to ask questions. Welcome to the class.