

# Course Syllabus

[Math Department website \(http://math.berkeley.edu/courses/fall-2014-math-53-002-lec\)](http://math.berkeley.edu/courses/fall-2014-math-53-002-lec)

**Prerequisites:** 1B.

**Syllabus:** Parametric equations and polar coordinates. Vectors in 2- and 3-dimensional Euclidean spaces. Partial derivatives. Multiple integrals. Vector calculus. Theorems of Green, Gauss, and Stokes.

**Office:** 921 Evans

**Office Hours:** Wednesday 12-2

**Required Text:** James Stewart, [Multivariable Calculus, Early transcendentals for UC Berkeley](http://calstudentstore.berkeley.edu/courselisting/index/loadMaterials) (<http://calstudentstore.berkeley.edu/courselisting/index/loadMaterials>)

**Grading:** There will be weekly quizzes, two midterms and a final

**Homework:** Homework will be assigned weekly, due Monday. GSIs (*Graduate Student Instructors*) will go over the homework and answer questions about it in section.

**Quizzes (20%):** Wednesdays in section. Each quiz will consist of two problems from the homework due the previous Monday.

**Midterm 1 (20%):** October 7, covering sections from Chapters 10, 12, 13, and 14 covered in lecture.

**Midterm 2 (20%):** November 18, covering sections from Chapters 15, 16.

**Final (40%):** December 18, 11:30 am - 2:30 pm. The final will be cumulative.

**Grading policy:** There will be no make-up quizzes or exams. If you need to miss a quiz for a valid reason (letter from sports coach for student athletes, note from doctor for illness, or family emergency), then notify the GSI ahead of time (if possible, or after in the case of an emergency). The two lowest quiz scores will be dropped, except if the quiz is missed for an unexcused absence. A missed midterm will count for zero, unless a valid excuse is approved by the GSI, in which case the final score will replace the missing midterm score.

Exam grades cannot be changed, unless there is an egregious error such as adding up points incorrectly.

(Please check as soon as you get your exam back: you must ask your GSI about any such error immediately after the exam is returned during discussion to receive consideration; *if you ask later after taking the quiz or midterm away with you, your grade cannot be changed.*)

If you don't understand *why* you lost points on a question, please ask; but the *number* of points deducted cannot be changed, because we grade all the exams together according to the same standards and regrading individual exams would be unfair to everyone else.

**Solutions:** Answers to questions will only receive credit if full work is shown.

You should write in grammatically complete sentences with plain English where appropriate, in order to explain your work. Some questions will also require diagrams or

