

## Mathematics 1B 003, Calculus — Spring 2013 — Course Info and Policies

Instructor: Michael Christ. 809 Evans Hall, [mchrist@math.berkeley.edu](mailto:mchrist@math.berkeley.edu), 642-2143.

Course control number: 53614.

Office hours: TBA.

Course web page <http://math.berkeley.edu/~mchrist/Math1B/coursepage.html>. Essential information and announcements will be systematically posted there, along with problem sets, solutions to exam and selected homework problems, and outlines of most lectures.

Scores for all assignments will be posted on bspace.

Lectures: MWF 12:10 – 1:00 in 2050 VLSB.

Text: *Single Variable Calculus: Early Transcendentals 7E for UC Berkeley* by James Stewart. 7th edition, 2012, Cengage Learning Custom Publishing. (See “View Books” link on online schedule of classes listing.)

Prerequisites: Reasonable mastery of Math1A or equivalent.

Required Work: Final exam, two midterm exams, six quizzes. Weekly problem sets.

Discussion sections: Required; meet MWF.

Topics: Techniques and applications of integration. Numerical approximation of integrals. Infinite sequences and series. Taylor polynomials. Ordinary differential equations of first order; linear ordinary differential equations of second order.

Examinations: Two **midterm exams**: in VLSB 2050, 12:10 to 1:00, on Friday February 15 and Friday March 22. **Final exam**: Wednesday, May 15 3:00-600 PM, location TBA. All exams are closed book. In principle, exams are based on *all material* discussed in lectures, problem sets, and assigned readings from the text. Practice exams will be provided.

Quizzes: 6 short **quizzes** will be given in discussion section. The lowest score will be dropped, that is, your total quiz score equals the sum of your five highest quiz scores. There will be *no makeups* for missed quizzes unless authorized before the date of the quiz, except in unusual circumstances beyond a student’s control. Ordinary short term illness is not such an unusual circumstance; the policy of dropping one quiz score is intended to accomodate minor illnesses. See course web page for quiz dates.

Grading: HW = 10%, Quizzes = 15%, MT1 = 15%, MT2 = 20%, Final = 40%. Students will be rank ordered according to total course points, then assigned letter grades. See course web page for further info.

Problem Sets: Problem sets will generally be due each *Wednesday* in discussion sections, with exceptions for exam weeks, and will generally be posted one week before they are due. Detailed solutions for selected problems will be provided. Late assignments will be accepted only under extraordinary circumstances. *You may freely discuss problem sets with other students*, but should write up your assignments yourself. In this and all courses, you should acknowledge the contributions of others to your written work. (e.g. “I worked with Fred and Emily” or (not advised) “I copied the solution of problem 2 from source *x* on the internet”, or (unproductive for multiple reasons) “I emailed Professor Ahlfors of Harvard University.”)

Assigned Readings: (i) Students are responsible for reading assigned portions of the text. The most important points will be discussed in lecture, but *there is insufficient time to discuss everything in class*. (ii) Skimming material before class may help you to get more out of lectures. (iii) Lecture notes will be posted. These will summarize lectures but will not provide full details. The course will be podcast at [podcast.berkeley.edu](http://podcast.berkeley.edu), but podcasts are of limited utility without accompanying visuals.

Missed Exams and special circumstances: **Students must take all exams at the scheduled times.**

There will be no makeup exams. Permission for any absences from exams must be obtained during the first three weeks of classes. Exceptions will be granted on a case by case basis for participation in official university activities, or for unusual circumstances beyond a student’s control, such as significant illness documented by a physician or conflict with a religious holiday. Students who have not kept up fully with coursework are not eligible for exceptions. If you have a conflict with a scheduled exam, switch to another Math1B lecture, or contact Professor Christ at the very beginning of the semester. For info about I (incomplete) grades, consult <http://ls-advise.berkeley.edu/registration/incomplete.html> and the course web page.

Students with disabilities: Students requiring special examination arrangements, note takers, or other accommodations should please consult the Disabled Students Program (DSP) office and notify their GSIs promptly at the beginning of the semester. DSP will provide assistance and will communicate specific recommendations to Professor Christ.