

Calculus (Fall 2017)

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Course name: Math 1A - LEC 003

Main Lectures: TuTh 3:30-5:00, Valley Life Sciences 2050

Instructor: **Sug Woo SHIN** (<https://math.berkeley.edu/~swshin/>) (Sug Woo is my first name), sug.woo.shin@berkeley.edu

Office: 901 Evans Hall (on 9th floor)

Office hours: **Tu 10-11:30 @ 901 Evans, Th 2:30-3:30 @ student learning center**, or by appointment

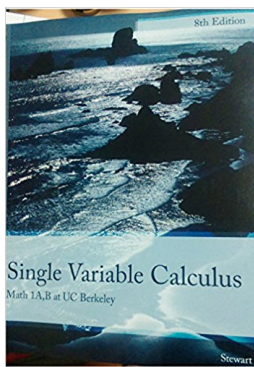
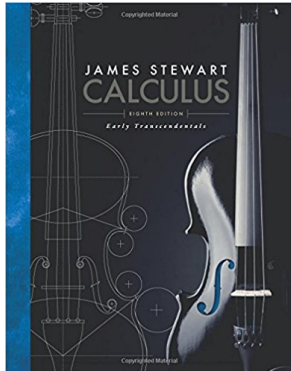
(OH are scheduled on TuTh because MWF are completely filled with discussion section schedules.)

Drop-in tutoring: M-Th 10-6, F 10-4 at student learning center (free for everyone -- you need not be registered for adjunct course Math 98) [\[click here for more info\]](#) (<http://slc.berkeley.edu/math-1a>)

Textbook: James Stewart, Calculus, 8th edition, early transcendentals

or James Stewart, Single Variable Calculus: Early Transcendentals for UC Berkeley, 8th edition

(Either is fine and covers both Math 1A and 1B. You don't need the "webassign" enhancement.)



(<http://slc.berkeley.edu/math-1a>)

Student Learning Center (SLC):

It's located on the ground floor of Cesar Chavez Student Center. Walk in all the way to find a big open area with high ceiling. For my Thursday office hours, I'll be sitting in the "Math/Stats" area. [Click here to see the image.](#)

(<https://www.dropbox.com/s/jy7x45j39gzglis/File%20Aug%2024%2C%2010%2007%2003%20AM.jpeg?dl=0>)



Important dates:

Two in-class midterms: **9/14, 10/26** (Thursdays), Three in-class quizzes: **9/6, 10/4, 11/15** (Wednesdays)

(The 1st quiz and 1st midterm exam are scheduled early so that you receive enough feedback before the drop deadline.)

Weekly assignments due: **Thu 8/31, Tue 9/5, Tue 9/12, Tue 9/19, ... , Tue 11/21, Tue 12/5** (all Tuesdays except the first one)

Final exam time/place: **Friday 12/15, 7-10pm** (to be tested on the *entire material* for the semester), location **Pimentel 1 and Stanley 105**

Grading scheme:

12% homework (best 12 out of 14) -- see below for more info, 8% quizzes (best 2 out of 3)

20% first midterm, 20% second midterm, 40% final

* The lesser of your midterm scores will be replaced by your final exam score, appropriately scaled, if it leads to a higher total.

* No early/late exams or quizzes will be given (unless you have an accommodation letter explicitly stating otherwise).

* No calculator or electronic devices are allowed in exams (unless you have an accommodation letter explicitly stating otherwise).

* No individual exam will be curved. After the final exam, your grand total score will be curved relative to the class. Generally you should expect A- or above if you're in the top 25%, B- or above if you're in the top 50%, C- or above if you're in the top 75%. Depending on the class' overall performance the actual cutoffs may go up or down. In fact your grade could be better than what's said above because the grade cutoffs will be determined based on your raw scores (before the adjustment, namely possibly replacing one of your midterm scores with the final score) but your final grade will be calculated using your adjusted score (which is greater than or equal to your raw score).

Weekly assignments:

Weekly assignments are to be administered through the online system called **WeBWork**. There is a link to WeBWork in the left column of the bcourses page. Click the link to access weekly assignments.

Some advantages are that you know immediately whether your answer is right or wrong and that you can try a question multiple times until you get it right. No penalty for extra attempts. No need to submit any handwritten homework. For help, don't hesitate to come to my or GSI's office hours or the student learning center.

The **first assignment due Thursday 8/31** consists of "HW0 practice" and "HW01". The former is basically a WebWork Tutorial. While you need to do it to get familiar with WebWork (for instance to learn how to enter various formulas), "HW0 practice" doesn't count toward your grade. Only problems in HW01 (as well as later assignments) are worth points. Each assignment typically consists of 12 problems.

Piazza:

This term we will be using Piazza for class discussion. The system is highly catered to getting you help fast and efficiently from classmates, the TA, and myself. Rather than emailing questions to the teaching staff, I encourage you to post your questions on Piazza. (If you do email questions, you will be reminded to post your questions on Piazza.) There's no need to be shy as you have the option to post your question anonymously. If you have any problems or feedback for the developers, email team@piazza.com (<mailto:team@piazza.com>).

Incentive: To incentivize your active participation, I will give some credit to the students frequently answering others' questions. The precise incentive (including how much participation would lead to credit) is determined at the instructor's discretion, after watching how things are going for some period of time.

(Caveat 1: I will refrain from answering math questions directly or promptly in order to allow you enough time to answer each other's questions. My role will be generally limited to endorsing nice student answers and intervening if confusion lingers or a problem remains unresolved for several days. All questions on Piazza will be public posts. If you'd like to ask a question privately or want an immediate answer from me, please come to my office hours. I'm more than happy to help!)

(Caveat 2: It's fine to exchange ideas and hints for homework problems, but needless to say, let's not ask for answers or post answers before deadline.)

Find our class page at: <https://piazza.com/berkeley/fall2017/math1alec003/home> (<https://piazza.com/class/j6mnq5smswo72w?cid=4#>)

or follow the link to Piazza on the left menu.

Grading of exams:

We will be using **Gradescope** (<https://gradescope.com>) to grade midterm and final exams. This means that everyone's exam will be scanned, uploaded to the gradescope page, and then graded online by the instructor and GSI's. Some of you may already have experience with gradescope. You'll hear more about this later.

Tips on whom to contact:

- Emergencies: Email me (SWS) or come to my office hours.

- Math questions: Use discussion sections, visit the student learning center, post your questions on Piazza, or come to office hours (mine or GSI's). Don't email math questions -- if you do, you'll be reminded to ask on Piazza.

- WebWork: Email me through "Email instructor" button in WeBWork only if the following applies (you'll see the same when you click on that button): "Use this form to report to your professor a problem with the WeBWork system or an error in a problem you are attempting." Otherwise, post your question on Piazza.

(A sample scenario: If you believe you've got the correct answer, but if WeBWorK keeps telling you it's wrong, you might think it's a WeBWorK error. However chances are you made a mistake without noticing. In that case don't use "Email instructor" button. I recommend you post your question on Piazza to run by your peers if they have the same problem.)

- Quiz scores: Come to GSI's office hours

- Exam scores: Any regrade requests shall be filed through gradescope, which will be automatically forwarded to me and the GSI's according to who graded what.

General tips on math classes:

- Preview: Read the textbook before coming to class. You'll get more out of lectures.

(If the textbook and lectures are too easy and boring to you, it might be appropriate for you to take a more advanced course.)

- Concepts: It's important that you understand all concepts and definitions thoroughly. Try to get a mental "picture" or an intuition. Visualize if possible. View each concept from different angles. (For instance, Section 1.1 defines a function and suggests four ways to represent it.) In all this, use examples.

- Examples: Work through examples in the textbook carefully. Make your own examples and counterexamples.

- Ask: Make it a habit to ask yourself and others (including instructor and GSIs) questions. This makes you a critical, thus more effective learner. Over time you will be trained to ask better questions, not only in math but in all subjects. This is a key to success in academia and the real world. Great inventions and discoveries come from asking good questions.

- Exercise: Don't think that you have understood after reading the textbook and attending lectures. It doesn't stick and become yours until you do homework and try (at least some) exercises in the textbook. By doing so, another benefit is that you get faster at thinking, computing, and solving problems -- a key to exam success.

- Collaboration: You need your own time to think independently but you are encouraged to work together at other times, not only when doing homework. Ask each other questions. Try to explain what you learned to your friends. Share your ideas, intuitions, and perspectives. Make a good use of Piazza.

(However, don't copy others' solutions or let others solve your problems when doing homework. Asking for a hint is fine.)

Dates / Planned coverage in the textbook (subject to change) / Comments on events

Week 1	Aug 24	1.1	
Week 2	Aug 29, 31	1.2-1.5	
Week 3	Sep 5, 7	2.1, 2.2, 2.3	Quiz 1 on Wed Sep 6 (covering 1.1-1.5)
Week 4	Sep 12, 14	2.4	Midterm 1 on Thu Sep 14 (covering 1.1-2.3)
Week 5	Sep 19, 21	2.5, 2.6, 2.7	
Week 6	Sep 26, 28	2.8, 3.1, 3.2	
Week 7	Oct 3, 5	3.3, 3.4, 3.5	Quiz 2 on Wed Oct 4 (covering 2.1-3.2)
Week 8	Oct 10, 12	3.6, 3.9	
Week 9	Oct 17, 19	4.1, 4.2, 4.3	

Instructor to be away on Sep 26 for a [seminar talk in Boston](#) (http://math.mit.edu/nt/index_bcmit.html). Pierre Simon (1A instructor for another section) is to substitute for me.

Week 10	Oct 24, 26	4.4	Midterm 2 on Thu Oct 26 (covering 2.4-4.3)
Week 11	Oct 31, Nov 2	4.5, 4.7, 4.9	
Week 12	Nov 7, 9	5.1, 5.2, 5.3	
Week 13	Nov 14, 16	5.4, 5.5	Quiz 3 on Wed Nov 15 (covering 3.3-5.3)

Week 14	Nov 21	6.1	
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Instructor is away on Nov 21 for a [conference in Japan](#)

(<http://www.math.tohoku.ac.jp/~chida/Ehime2017.html>), Nov 23 is a Thanksgiving holiday.

(Substitute instructor on Nov 21: Rocky Foster)

Week 15	Nov 28, 30	6.2, 6.3	
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GSI office hours: TBA

Course Summary:

Date	Details
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