

**Calculus I (Math 30), Fall 2018**  
**MacQuarrie Hall 320, MW 10:30–11:45am (Sec. 07, code 50525)**

**Instructor:** Dr. Tim Hsu (pronounced “shoe”).

**Office and phone:** MacQuarrie Hall 419, (408)924-5071.

**Office hours:** M 12:00–1:00pm, 2:00–3:00pm; W 12:00–3:00pm. Current schedule available at: <http://www.timhsu.net/courses/generic/sched.pdf>

**E-mail:** [tim.hsu@sjsu.edu](mailto:tim.hsu@sjsu.edu). I will try to respond to your email within 24 hours.

**Course web page:** <http://www.timhsu.net/courses/30/sec07>

**Text:** *Calculus: Early Transcendentals*, James Stewart, 8th edition. Make sure you get the “Early Transcendentals” version and the 8th edition (black cover with a dark/black violin next to a design schematic for a violin).

**Calculator:** You will need a graphing calculator for this class, but you are not allowed to use one that can do symbolic algebra. I can provide support for any TI calculator; if you have another kind of calculator, let me know, and we’ll work something out. (Though to repeat the above warning, on exams, you are *not* allowed to use the TI-89, TI-92, or any other calculator that does symbolic algebra.)

**Course learning objectives.** You will learn the concepts and techniques of differential calculus and use them in solving applied problems. In particular, you will study limits, continuity, differentiation, and applications of the derivative.

**Time expectations.** The standard expectation for a 3-unit class is that you will spend at least 9 hours per week working on this class (i.e., at least 6 hours outside the classroom).

**Reading.** In general, you should do the assigned reading before anything else, i.e., before the topics come up in class or in the homework. Read *all* of the text, and not just “the stuff in the blue boxes.” Throughout the semester, I’ll always assume that you’ve done all of the reading. In particular, not every topic you have to know will be covered in class.

The course web page will always have a complete list of all reading assigned to date.

**“Flipped” lectures.** In this class, much of the material that one might discuss in lecture will be covered in online videos that you are to watch outside of class, along with your reading. The point of the videos is to summarize the highlights of the reading and prepare you to consider the material more deeply in class.

**Class.** Bring your textbook and calculator to class every day. Class will be a mixture of group activities and question-and-answer sessions.

**Phones.** We will use smartphones/laptops as part of your class time. However, phones cannot be used as calculators during quizzes or exams, and they are to be turned off completely during exams. Also, please set all phones, etc., to silent or vibrate during class.

**Homework.** Homework will be due every class day, except for exam days; for more details, see the handout on homework. Specific assignments will be determined as the term progresses. For a complete list of all homework assigned to date, see the course web page.

**Quizzes.** Roughly once a week, except for exam weeks, we will have an in-class quiz. Quizzes are closed-book, no notes; calculators (except TI-89 and 92) are fine.

**Study of calculus instruction.** This section of Math 30 is part of a CSU study of calculus instruction. As part of this study, you will be required to take an online pre-test on **Mon Aug 27** and a post-test towards the end of the semester. You will get extra credit 10/10 quiz grades for taking these tests, but they will not otherwise affect your grade.

**Exam dates.** The dates of our three in-class exams and final exam are found on the syllabus below. In particular, the final exam will be held on **Tue Dec 18**, from **9:45am–noon**. Please make sure that you are still on campus at that time (e.g., don’t buy a plane ticket that leaves town on Dec 17).

**Grading.** Your final course grade consists of: Homework 10%, Quizzes 5%, Exam 1 17%, Exams 2 and 3 19% each, and Final Exam 30%.

**30W workshop.** Students who add Math 30 are required to register for Math 30W at the same time; go to the workshop section you want to add to get an add code from the workshop facilitator. Both 30 and 30W must both be in your shopping cart at checkout.

**How to add this course.** If you would like to add this course, and there is space available, you must first put a full effort into completing all of the work in the course. Second, if you are a graduating senior, you need to produce documentation to verify that.

I'll make a waiting list, which you get on by filling out and turning in the information form for the course. I'll give out add codes starting **Fri Aug 31** (or possibly earlier), mainly based on completeness of homework, and as long as there is room, I will continue to give out add codes until add date (**Mon Sep 10**). Note, however, that graduating seniors have the highest priority, and that Open University students have the lowest priority.

**How to drop this course.** Until **Fri Aug 31**, you can drop at [my.sjsu.edu](http://my.sjsu.edu). Nothing will appear on your transcript, but please let me know if you drop.

To drop after Fri Aug 31, you must go to the student services center and submit a Course Drop form to the Director of Academic Services. Dropping under these circumstances is only allowed for “serious and compelling reasons” (course catalog). A low grade is not a serious and compelling reason.

**Academic integrity.** Your commitment to learning (as shown by your enrollment at SJSU) and SJSU’s Academic Integrity Policy require you to be honest in all of your academic course work. Faculty are required to report all infractions to the Office of Student Conduct and Ethical Development. See: [www.sjsu.edu/studentconduct](http://www.sjsu.edu/studentconduct)

**Disabilities.** If you need course adaptations or accommodations due to a disability, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 requires that students with disabilities register with the Accessible Education Center (formerly the Disability Resources Center) to establish a record of their disability.

### Tentative Syllabus

Date	Reading	Date	Reading
Wed Aug 22	1.1–1.3	Mon Oct 22	3.6; review
Mon Aug 27	1.4–1.5	Wed Oct 24	3.5
Wed Aug 29	2.1	Mon Oct 29	3.8
Mon Sep 03	<b>Labor Day</b>	Wed Oct 31	3.9
Wed Sep 05	2.2	Mon Nov 05	3.10
Mon Sep 10	2.2–2.3	Wed Nov 07	4.1–4.2
Wed Sep 12	2.3; 2.5	Mon Nov 12	<b>Veteran’s Day</b>
Mon Sep 17	2.5–2.6	Wed Nov 14	4.2–4.3
Wed Sep 19	<b>Exam 1</b>	Mon Nov 19	<b>Exam 3</b>
Mon Sep 24	2.7	Wed Nov 21	<b>NO CLASSES</b>
Wed Sep 26	2.8	Mon Nov 26	4.4
Mon Oct 01	3.1	Wed Nov 28	4.5
Wed Oct 03	3.2	Mon Dec 03	4.7
Mon Oct 08	3.3	Wed Dec 05	4.8
Wed Oct 10	3.4	Mon Dec 10	4.9
Mon Oct 17	3.7	<b>Tue Dec 18</b>	<b>FINAL EXAM</b>
Wed Oct 19	<b>Exam 2</b>		<b>9:45am–noon</b>

**Tutoring.** Peer tutoring is available to all SJSU students, free of charge, through:

- The College of Science Advising Center ([www.sjsu.edu/cosac](http://www.sjsu.edu/cosac))
- Peer Connections ([peerconnections.sjsu.edu](http://peerconnections.sjsu.edu))