

**Calculus III (Math 32), Fall 2006, San José State University**  
**Duncan 318, MWF 12:30–1:20pm (Sec. 06, code 41633)**

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

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

**Office hours:** MWF 11:30–12:30, M 1:30–2:30, F 1:30–3, or by appointment. For a current schedule, see: <http://www.math.sjsu.edu/~hsu/courses/generic/sched.pdf>

**E-mail:** [hsu@math.sjsu.edu](mailto:hsu@math.sjsu.edu) or [hsu.math.sjsu@gmail.com](mailto:hsu.math.sjsu@gmail.com). I can be reached by e-mail at most times of the day, and will often answer within a few hours.

**Course web page:** <http://www.math.sjsu.edu/~hsu/courses/32/>

**Text:** *Calculus: Early Transcendentals*, James Stewart, 5th edition. Make sure you get the “Early Transcendentals” book, as Stewart has written several calculus textbooks, and make sure you get the 5th edition (black cover with a greenish picture of a violin on it), especially if you do not buy the book through the University bookstore.

**Calculator:** You will need a graphing calculator for this class. I can provide support for any TI calculator; if you have another kind of calculator, let me know, and we’ll work something out. One important warning: You are *not* allowed to use the TI-89 or the TI-92 on exams. (On the other hand, the TI-82, 83, 85, 86, etc., are fine on exams.)

**Goals of the course.** In Calculus I and II, you’ve learned about differentiation, integration, and the relationship between them (the Fundamental Theorem of Calculus). However, all of that was essentially in one dimension, whereas real-life problems often take place in two, three, or even more dimensions. In Calculus III, we’ll explore what happens to ordinary calculus and geometry in higher dimensions.

**Class.** Bring your textbook and calculator to class every day. Class will consist of a mixture of lecture, group activities, and question-and-answer sessions. Please turn off all cellphones and beepers before you get to class.

**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 red 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.

**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 allowed, but calculators (though not the TI-89 and 92) are fine. Our first quiz will be on **Wed Aug 30**.

**Exams.** The (tentative) exam dates are described in the syllabus below. *You must plan to take the exams at their scheduled times.* In particular, previous travel arrangements are not a valid excuse, so do *not* leave campus before the final on **Fri Dec 15** from **12:15–2:30pm** (e.g., don’t buy a plane ticket that leaves town on Dec 14).

**Exam policies.** All exams will be closed-book. Calculators are allowed (though not the TI-89 and 92), and you are also allowed to bring one  $3 \times 5$  card of notes. Exams are primarily based on the reading and the homework, so the best way to prepare for exams is to do all of the reading and the homework.

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

**How to add this course.** If you are not registered for this course, and you would like to add it, 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 **Tue Sep 05**, mainly based on completeness of homework, and as long as there is room, I will continue to give out add codes until add date (**Tue Sep 12**). Note, however, that graduating seniors have the highest priority, and that Open University students have the lowest priority.

**How to drop this course.** Until **Tue Sep 05**, 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 Tue Sep 05, 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 the university'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 Judicial Affairs. (See: <http://www2.sjsu.edu/senate/S04-12.htm>)

**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 Disability Resources Center to establish a record of their disability.

### Tentative Syllabus

Date	Reading	Date	Reading
Wed Aug 23 Fri Aug 25	Intro, review 12.1	Mon Oct 16 Wed Oct 18 Fri Oct 20	14.7 14.7, review <b>Exam 2</b>
Mon Aug 28 Wed Aug 30 Fri Sep 01	12.2 12.2 12.3	Mon Oct 23 Wed Oct 25 Fri Oct 27	15.1 15.2 15.2–15.3
Mon Sep 04 Wed Sep 06 Fri Sep 08	<b>Labor day</b> 12.3 12.4	Mon Oct 30 Wed Nov 01 Fri Nov 03	15.3 15.3 10.3
Mon Sep 11 Wed Sep 13 Fri Sep 15	12.4–12.5 12.5 12.5–12.6	Mon Nov 06 Wed Nov 08 Fri Nov 10	15.4 15.5 <b>Veteran's Day</b>
Mon Sep 18 Wed Sep 20 Fri Sep 22	12.6 <b>Exam 1</b> 14.1	Mon Nov 13 Wed Nov 15 Fri Nov 17	15.7 15.7 12.7
Mon Sep 25 Wed Sep 27 Fri Sep 29	14.1 14.1–14.2 14.3	Mon Nov 20 Wed Nov 22 Fri Nov 24	15.8 <b>Exam 3</b> <b>Thanksgiving</b>
Mon Oct 02 Wed Oct 04 Fri Oct 06	14.3 14.4 14.4	Mon Nov 27 Wed Nov 29 Fri Dec 01	10.1 13.1 13.1–13.2
Mon Oct 09 Wed Oct 11 Fri Oct 13	14.5 14.6 14.6–14.7	Mon Dec 04 Wed Dec 06 <b>Fri Dec 15</b>	13.2 13.4 <b>Final exam, 12:15–2:30pm</b>

**Tutoring.** Peer tutoring in calculus is available to all SJSU students, free of charge, at the Learning Assistance Resource Center, in Room 600 of the Student Services Center. See <http://www.sjsu.edu/larc> or call x4-2587 for more information.