

MATH 122
CALCULUS 1
CSULB
SPRING 2014

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OFFICE HOURS: TUE 10:45-11:45

Overview

Calculus has influenced civilization to an extent that would be difficult to overestimate. Why should this be the case? One of the important motivations for calculus is to describe and analyze the motion of objects. Through lectures, class exercises and discussion we'll explore how calculus gives us a way to understand how things change.

Pre-class preparation

Video lectures and tutorials will appear on the course website for each week of the semester. You should view this material **in advance of the class sessions** for the respective week. Watch with a critical eye: make note of questions, clarifications, and insights that arise and come to class prepared to contribute.

Class sessions

Working in a group of two (preferred) or three, you will explore questions and problems from the assigned material. Non-quiz days will begin by considering issues that stem from lecture and tutorial presentations.

Course-work

Exercise

There will be regular assignments consisting of reading and exercises. Many of the assigned exercises will be posted on *WebAssign* for you to complete for credit. You won't submit these in writing, but I urge you to **write them up carefully**. Also, I strongly encourage you to **work with others** and to consider the problems at some length before asking about them in class. I also urge you to ask about the problems.

Quiz

Beginning in week three and then every two weeks afterward, there will be a quiz posted on *WebAssign* that you will complete with your group during class.

Exam

There will be one exam (about week 8) as well as a comprehensive final exam and will be taken individually. Study guides will appear a week or two in advance.

Careful and thorough work on the assignments and engaging in class exercises and discussions should prepare you for the exams. You're free to use books, notes, and calculator.

In the event of a medical or personal condition that compels you to miss an exam, a make-up exam will be given. Please try to notify me in advance of such a circumstance.

Missed quiz or exam

Make-up quizzes and exams won't be offered. If you miss one due to illness or emergency, let me know as soon as you can and we can arrange an alternative.

WWW

Materials related to the course (announcements, handouts, lectures/tutorials, learning resources) will appear at

www.csulb.edu/~scrass/teaching

Feel free to make recommendations for things that you'd like to see on the site.

Text

J. Stewart, *Essential Calculus: Early Transcendentals* (2nd edition)

Getting evaluated

Exercises (WebAssign)	25%
Quizzes (WebAssign)	25%
Midterm exam*	25%
Final exam (8-10 Friday 16 May)	25%

*If the score on the final exam is higher than on the midterm, the midterm score will be replaced by the final exam score.

Here's a *rough* indication of how grades will be assigned. These are **minimum** standards. The actual boundaries between grades might be lower than these, but won't be higher.

90-100%	A
80-90%	B
70-80%	C (CR/NC : Credit requires the equivalent of a C or better.)
60-70%	D

Let me know if you're happy or unhappy about something.

Key to comments on marked papers

- a This needs a supporting **argument**.
- a? What's the **argument**—the line of reasoning—here?
- d **Describe** what's going on here.
- e **Explain** what you're doing here.
- h? **How** did you get this?
- i **Illustrate** what you're talking about—give an example, a picture, etc.
- m The **meaning** here isn't clear.
- p A **picture** would help here.
- s This is not a **sentence**.
- w **Wording** is awkward, confusing, etc. Meaning is unclear.
- y? **Why** is this so? What's the connection to what you've already said?
- ! Very nice. Something especially clear, insightful
- ? What this means or what you're doing is **unclear**. Where does this come from?
- X Something's wrong here—in concept or calculation.
- ✓ This is right—you have the idea.

Fine Print

Withdrawal A copy of the School of Natural Sciences withdrawal policy is available from the Department Office. Note that it's different from the University withdrawal policy and the deadlines are earlier. Deadlines to which you should pay particular attention to appear below. Withdrawals from this course will be allowed only in accordance with University and College policies. Please be aware of the more specific and restrictive withdrawal policy for the College of Natural Sciences and Mathematics.

Weeks 1-2. Withdrawals will not appear on the student's permanent record.

Weeks 3-8. Withdrawals are permissible only for serious and compelling reasons. Academic progress unsatisfactory to the student is considered a serious and compelling reason during this period. Instructor and Department Chair signatures on the drop form are required.

Weeks 9-12. Withdrawals are permissible for serious and compelling reasons, but during this period, unsatisfactory academic progress is not considered a serious and compelling basis to drop a course. Circumstances must be shown that preclude the student from attending class or from any effective opportunities to study. In addition to the normal withdrawal form, a special form must be completed, and instructor and department chair signatures are required.

Weeks 13-15. Withdrawals are permissible only for serious accident or illness and involve a total withdrawal from the University. Detailed written documentation must accompany withdrawal forms. Instructor, chair, and college dean signatures are required.

Disability It is the student's responsibility to notify the instructor in advance of their need for accommodation of a disability that has been verified by the University.

Cheating/Plagiarism Cheating and plagiarism are in violation of the California Administrative Code, Title 5, Section 41301. CSULB has adopted a specific policy with respect to the violations of this nature (see the Bulletin or Schedule of Classes). Any student in violation of this code and policy in any assignment or examination related to this course shall be subject to the options specified in the policy statement. This may result in the student receiving a failing grade in the course or, in certain circumstances, being expelled from the University.