

# Syllabus Summer Session 2014 (Math 19A - Calculus I)

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## Course Learning Objectives

1. Understand the concept of an instantaneous rate of change and the derivative of a function
2. Learn how to calculate derivatives explicitly and implicitly and to master how derivatives affect the behavior of a function
3. Master the application of the derivative notion to optimization problems

## General Information

<b>Time:</b>	That's up to YOU
<b>Location:</b>	Wherever you have Internet!
<b>Course Authors:</b>	Tony Tromba, Frank Bäuerle
<b>Course Hosts:</b>	UCSC, UC Online
<b>Course Designer:</b>	Katrina Fullman
<b>Instructor:</b>	Frank Bäuerle
<b>Teaching Assistants (TAs):</b>	Jody Ryker
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## Office Hours (OH)

[Click here for dates, times and locations.](#) The instructor and TAs hold weekly office hours both in-person and online via Adobe Connect, our webinar software. A range of times are available.

## Discussion Sections/T.A.'s

There are [optional discussion sections](#) at various times (location TBA) that really are like drop-in hours. You do not need to enroll in them to attend. The tentatively scheduled times are Monday 1-3pm, Wednesday 1-3pm for the on-the ground sections and for the on-line sections we will set up a survey to

find a good time.

## MSI and Tutoring Options

There will be **MSI (Modified Supplemental Instruction)** which can be thought of as class-specific drop-in tutoring. The MSI section leader is a trained fellow student who has already taken the course. The details about MSI sections will be announced on Canvas and the [Sections/Tutoring Options](#) page.

## Study Groups

We are actively soliciting students to help organize and facilitate study groups. E-mail [bauerle@ucsc.edu](mailto:bauerle@ucsc.edu) if you are interested in this opportunity.

## e-Textbook and Homework System

The textbook (a customized version of *Calculus, Early Transcendentals, 2nd ed*, by UCLA Professor Jon Rogawski) is located on a web-based platform called Launchpad and the homework assignments can be found on a platform called CalcPortal. We are offering free access to both platforms this term. [For details on how to access Launchpad and CalcPortal, go to the Quick Start Guide.](#)

## Grading Policy

The grade in this class is comprised of:

<b>On-line Homework (in CalcPortal)</b>	<b>15%</b>
<b>On-line Quizzes (in CalcPortal)</b>	<b>10%</b>
<b>Reading Assignments - Progress Check Questions (in LaunchPad)</b>	<b>5%</b>
<b>Proctored Midterm (in person or online)</b>	<b>30%</b>

**Comprehensive Final (in person or online)**

**40%**

Some detailed explanation for the grading is in order:

- **Homework:** All homework assignments are on CalcPortal and are due on the dates noted below in the weekly schedule. You have an unlimited number of attempts on all homework questions and most questions provide feedback or hints if you answer incorrectly.
- **On-Line Quizzes:** On-line quizzes are announced periodically through Canvas announcements and email (see schedule below for dates). On-line quizzes are found in CalcPortal. Unlike regular on-line homework assignments, they are limited in time and do not give hints or feedback for incorrect answers. There will be partial credit (where appropriate) on on-line quizzes. Your TA and instructors will check your answers and may assign partial credit after the computer score has been calculated. That is, your final score on a quiz or other on-line test may be higher than what you see after you submit your test to Launchpad.
- **Reading Assignments:** No, we are not watching you when you read, so your reading score is determined by your performance on the progress check questions in the sections in LaunchPad. You will encounter them regularly when you read the assigned sections in your E-book. All readings are due on the dates noted below in the weekly schedule.
- **Discussion on Piazza and Study Group Participation:** This is a tricky one. Research shows that student success in on-line learning increases with active participation in discussion groups. On the other hand, we understand that not everybody needs help nor may want to collaborate with others. Now if you don't need help, you can still help others, and the fact is that explaining math to others helps you understand the math more deeply, so it is to your benefit also. **Active participation on Piazza is strongly encouraged and can contribute to a grade bump for the final grade.**
- **Final Exam:** The comprehensive final exam is 40% of your grade. In addition, students need to have a sufficiently high score on the final exam to pass the class. Similarly, an exceptionally high score on the final exam can lead to a grade bump.

### Tentative Weekly Schedule

Week	Dates	Sections to be covered	Assignments Due
1	6/22-6/29	Introductory Videos & Sections 2.1, 2.2, 2.3, 2.4 and 2.5	<ul style="list-style-type: none"><li>• Wk 1 Homework and Reading due <b>Sun 6/29 @ 11:59pm</b></li></ul>

2	6/30-7/6	Sections 2.6, 2.7, 2.8, 3.1, 3.2 and 3.3	<ul style="list-style-type: none"> <li>Wk 2 Homework and Reading due <b>Sun 7/6 @ 11:59pm</b></li> </ul>
3	7/7-7/13	Sections 3.5, 3.6, 3.7, 3.8, 3.9, Review and Midterm.	<ul style="list-style-type: none"> <li><b>Quiz 1</b> available <b>Mon 7/7</b> between 12am - 11:59pm (you have 90 minutes to complete)</li> <li><b>Midterm</b> available <b>Fri 7/11</b></li> <li>Wk 3 Homework and Reading due <b>Sun 7/13 @ 11:59pm</b></li> </ul>
4	7/14-7/20	Sections 3.10, 3.11, 4.2, 4.3, 4.4 and 4.5	<ul style="list-style-type: none"> <li><b>Quiz 2</b> available <b>Fri 7/18</b> between 12am - 11:59pm (you have 2 hours to complete)</li> <li>Wk 4 Homework and Reading due <b>Sun 7/20 @ 11:59pm</b></li> </ul>
5	7/21-7/25	Sections 4.6, 4.7, 4.8, Review and Final Exam	<ul style="list-style-type: none"> <li><b>Final Exam</b> (on-campus) Fri 7/25, <b>Time 12-3pm</b>, Location TBA</li> <li><b>Final Exam</b> (online) <b>Fri 7/25</b> by appointment with Proctor U</li> <li>Wk 5 Homework and Reading due <b>Fri 7/25 @ 11:59pm</b></li> </ul>

## Midterm and Final Exams

Please go to our [Exam Information Page](#) for details on Midterm and Final dates, times, locations and requirements. Exams will be offered on-campus for UC Santa Cruz students and online for UC Online students.