

# Math 19A Syllabus Spring 2016

---

## 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>	Laura Rosenzweig and Katrina Fullman
<b>Instructors:</b>	Sean Gasiorek
<b>Teaching Assistants (TAs):</b>	See the complete list at the bottom of the home page.
<b>Office:</b>	
<b>Phone:</b>	
<b>E-mail:</b>	Sean: <a href="mailto:sgasiore@ucsc.edu">sgasiore@ucsc.edu</a>

## Office Hours (OH)

[Click here for dates, times and locations \(https://cole2.uconline.edu/courses/486102/pages/office-hours\)](https://cole2.uconline.edu/courses/486102/pages/office-hours). 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

Your TAs (teaching assistants) will help facilitate the on-line discussion groups and also hold on-line [office hours \(https://cole2.uconline.edu/courses/486102/pages/office-hours\)](https://cole2.uconline.edu/courses/486102/pages/office-hours). There are [optional discussion sections \(https://cole2.uconline.edu/courses/486102/pages/optional-sections\)](https://cole2.uconline.edu/courses/486102/pages/optional-sections) at various times in McHenry Library as well as on-line. These sessions are really like drop-in hours. You do not need to enroll in them to attend. If there is demand for more such sections, we will offer more.

## MSI

There will be [MSI \(Modified Supplemental Instruction\)](http://lss.ucsc.edu/programs/modified-supplemental-instruction/index.html) (<http://lss.ucsc.edu/programs/modified-supplemental-instruction/index.html>) 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 MSI page.

## Study Groups

We are actively soliciting students from the colleges to volunteer to organize study groups at the colleges. E-mail me if you are interested to volunteer to organize such a group.

## e-Textbook and Homework System (Launchpad)

The e-textbook (a customized version of *Calculus, Early Transcendentals, 2nd ed*, by UCLA Professor Jon Rogawski) and the homework is located on a platform called Launchpad. We are offering free access to to both platforms this term. **For access details, go to the [Quick Start Guide \(https://cole2.uconline.edu/courses/486102/pages/quick-start-guide-math-19a?module\\_item\\_id=8651633\)](https://cole2.uconline.edu/courses/486102/pages/quick-start-guide-math-19a?module_item_id=8651633).**

## Grading Policy

The grade in this class is comprised of:

<b>On-line Homework (in LaunchPad)</b>	<b>15%</b>
<b>On-line Quizzes (in LaunchPad)</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>
<b>Comprehensive Final (in person or online)</b>	<b>40%</b>

Some detailed explanation for the grading is in order:

- **Homework:** All homework assignments are available on Launchpad which is accessed directly from each lesson, or you can click on MacMillan Higher Education link in the left NavBar. Due dates are posted in the weekly schedule and are listed in the Syllabus link or in the Calendar link at the top of the page. **You have an unlimited number of attempts on all homework questions and most questions provide feedback or hints if you answer incorrectly.** Each student can have **one** extension of two days without justification. Contact our TA (TBA) to ask for the extension. Subsequent extensions **need justification** and supporting documentation such as a doctor's note. Length of extension can vary based on the circumstances.
- **On-Line Quizzes:** On-line quizzes take place in weeks 3, 5, 8, and 10 and are found in Launchpad. 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. See the schedule below or click on Calendar at the top of the page to find due dates/times.

- **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 found in various sections in LaunchPad. You have three attempts on each question.** 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. You can also find the due dates by clicking on Calendar at the top of the page.
- **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.**
- **Curve:** We do not curve individual tests, but there **may** be a curve for the class in the sense that grade ranges that lead to certain grades are adjusted based on overall results. In addition, a sufficiently high score on the comprehensive exam is required to pass the course. Nonetheless, if you have an overall percentage of 70% or greater and a score of 60% or greater on the final, you are guaranteed to pass the class.

## Midterm and Final Exams

Please go to our [Exam Information page \(https://cole2.uconline.edu/courses/486102/pages/exam-information\)](https://cole2.uconline.edu/courses/486102/pages/exam-information) 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 Cross-Campus and UC Online students.

## Tentative Weekly Schedule

Week	Dates	Sections to be covered/Tests	Assignments Due
1	3/28-4/5	Introductory Videos & Sections 2.1, and 2.2	<ul style="list-style-type: none"> <li>• Wk 1 Homework and Reading due <b>Mon 4/4 @ 11:59pm</b></li> </ul>
2	4/4-4/10	Sections 2.3., 2.4, and 2.5	<ul style="list-style-type: none"> <li>• Wk 2 Homework and Reading due <b>Mon 4/11 @ 11:59pm</b></li> </ul>
3	4/11-4/17	Sections 2.6, 2.7, 2.8 and <b>Quiz 1</b>	<ul style="list-style-type: none"> <li>• Quiz 1 on LaunchPad, due <b>Fri 4/15 at 11:59PM</b></li> <li>• Wk 3 Homework and Reading due <b>Mon 4/18 @ 11:59pm</b></li> </ul>
4	4/18-4/24	Sections 3.1, 3.2, and 3.3	<ul style="list-style-type: none"> <li>• Wk 4 Homework and Reading due <b>Mon 4/25 @ 11:59pm</b></li> </ul>
5	4/25-5/1	Sections 3.5, 3.6 and 3.7 and <b>Quiz 2</b>	<ul style="list-style-type: none"> <li>• Quiz 2 on LaunchPad, due <b>Fri 4/29 at 11:59PM</b></li> <li>• Wk 5 Homework and Reading due <b>Mon 5/2 @ 11:59pm</b></li> </ul>
6	5/2-5/8	Sections 3.8, 3.9 and <b>Midterm</b>	

			<ul style="list-style-type: none"> <li>• <b>Midterm (in person): Sat 5/7</b>, 11:00am - 12:30pm PT, UCSC, Location: Earth and Marine Sciences 206B</li> <li>• <b>Midterm (online): Sat 5/7, 11:00am - 12:30pm PT</b>, by appointment with Proctor U</li> <li>• Wk 6 Homework and Reading due <b>Mon 5/9 @ 11:59pm</b></li> </ul>
7	5/9-5/15	Sections 3.10, 3.11, 4.2	<ul style="list-style-type: none"> <li>• Wk 7 Homework and Reading due <b>Mon 5/16 @ 11:59pm</b></li> </ul>
8	5/16-5/22	Sections 4.3 and 4.4 and <b>Quiz 3</b>	<ul style="list-style-type: none"> <li>• Quiz 3 on LaunchPad, due <b>Fri 5/20 at 11:59PM</b></li> <li>• Wk 8 Homework and Reading due <b>Mon 5/23 @ 11:59pm</b></li> </ul>
9	5/23-5/29	Sections 4.5, 4.6	<ul style="list-style-type: none"> <li>• Wk 9 Homework and Reading due <b>Mon 5/30 @ 11:59pm</b></li> </ul>
10	5/30-6/5	Sections 4.7, 4.8, Final Exam Review, and <b>Quiz 4</b>	<ul style="list-style-type: none"> <li>• Quiz 4 on LaunchPad, due <b>Fri 6/3 at 11:59pm</b></li> <li>• Wk 10 Homework and Reading due <b>Mon 6/6 @ 11:59pm</b></li> </ul>
11	6/9	<b>Final Exam</b>	<ul style="list-style-type: none"> <li>• <b>Final Exam</b> (on-campus) <b>Thur, Jun 9, 4:00-7:00PM, Earth and Marine Sciences 206B</b></li> <li>• <b>Final Exam on-line</b> (online) <b>Thur, Jun 9, 4:00-7:00PM</b>, by appointment with Proctor U</li> </ul>