

MATH 31A: DIFFERENTIAL AND INTEGRAL CALCULUS

Summer Bridge 2019

Instructor:	Leticia Mattos da Silva	Time:	M-F 09:00 – 10:00
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Course Page:

1. <http://lmattosucla.wixsite.com/31a-summer-bridge>

Office Hours: By appointment. Please write [Summer Bridge 31A] in your email subject line.

Textbook: J. Rogawski, *Single Variable Calculus, (4th Edition)*, W.H. Freeman CO

Objectives: Math 31A covers the differential calculus and integration through the fundamental theorem of calculus. The Summer Bridge 31A course is an accelerated preview that covers up to the first midterm.

Prerequisites: at least three and one-half years of high school mathematics (including some coordinate geometry and trigonometry). Students must either take and pass the Mathematics Diagnostic Test at the specified minimum performance level, or take and pass Math 1 at UCLA with a grade of C- or better.

Tentative Course Outline:

Lecture	Section	Topics
1		Introduction
2	2.3-4	Limit Laws, Limits and Continuity (a)
3	2.5	Evaluating Limits Algebraically
4		Midterm
5	2.6-2.7	Trigonometric Limits, Limits at Infinity
6	2.8	Intermediate Value Theorem
7	3.1	Definition of the Derivative
8	3.2	The Derivative as a Function
9		Final Exam

Grading Policy: Homework (15%), Quizzes (15%) Midterm (20%), Final (50%).

Important Dates:

Midterm Friday Sept 06, 2019
Final Exam Friday Sept 13, 2019

Homework Policy:

- Practicing is the best way to learn! Please, make sure you do all assigned homework problems.
- Every day a new homework set will be assigned on course page after class.
- Please use print paper to do your homework (no graph or line paper).
- In each page, write your full name and SID# on the top right corner.
- Staple all pages together vertically with 1cm margin. It helps me to grade efficiently!
- Write legibly! If I can't read it, I won't grade it!
- Turn in your homework within the first 5 mins of class. **NO LATE HW WILL BE ACCEPTED!**

Class Policy:

- Attendance is expected and mandatory. Remember you are receiving financial support to be taking this class. Special circumstances, such as illness, must be notified by email.
- Arrive on time! Remember, if you arrive more than 5 mins late you won't be able to turn in HW.

Academic Honesty: Cheating has serious consequences at UCLA. Please, review the Code of Conduct and make sure you understand all forms of academic dishonesty, including plagiarism, etc.