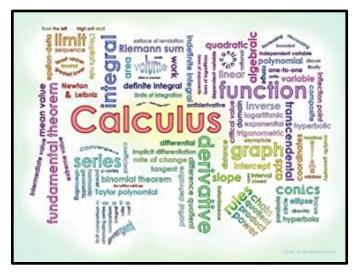# Math 1C: Calculus III Section 51Z Syllabus
Summer 2022

Course Information
Instructor: Mr. Andrew Lazar (he/him/his)
Answers To: Andrew, Mr. Lazar, Professor Lazar
Lecture: *Asynchronous Video Lectures*
Office: S 33-N
E-Mail: lazarandrew@fhda.edu
Student Hours: M/Th 11:00 AM – 12:00 PM (or by appointment)

Course Statement

Welcome to Math 1C! Many of you have taken previous Calculus classes before where the focus was differentiation and integration. A natural question is, what's next? Calculus in a nutshell is about the study of functions and learning about tools used to analyze these functions. Just about every field in STEM uses some idea of Calculus to help answer questions. How are rates of change in the economy calculated? How are 3D images formed and analyzed? How do we look at behaviors of certain systems over an infinite amount of time? These are just a few of the questions that can be answered when studying calculus. This is the third course in the calculus sequence. Our focus is parametric equations, sequences, series, vectors, and calculus over vectors. We are building the foundation for taking concepts we learn in single variable calculus and extending them to multiple variables. I am committed to helping you succeed in our online class environment, here are some suggestions for success.

- Watch **all** lecture videos on time and take detailed notes using the handouts I post on Canvas.

- Attend student hours regularly and/or utilize free tutoring services.
- Keep up with material, many of my previous students suggest the best thing to do is "**don't procrastinate**"
- When sending emails to me, please identify yourself and the course you are enrolled in. Please refrain from "text talk" (No "lol", "u", "omg").
- It may be helpful to form a study group with fellow students in the course.

Good luck! Keep communicating with me. I want you to succeed!!!

Text

Calculus Early Transcendentals, 9th Edition by Stewart

No textbook purchase is required for this course. You must purchase an access code for WebAssign which contains access to the e-book version of our text.

WebAssign Class Key: deanza 7766 8529
∗Note: You need to purchase an access code, the class key above is how you enroll in our WebAssign course. Access Code = proof of purchase; Class Key = Identification for our class on WebAssign.

Course Materials:
- A graphing calculator is allowed for this class. If you do not have one, you may use a scientific calculator or you may use Desmos online graphing calculator.
- A computer (6 years old or less is recommended)
- Binder or Notebook for notes

Grading:
The following list of assignments will make up your grade in this course.

Assignment	Weight
Lecture Notes	5%
Canvas Discussions	5%
Homework	30%
Exams (3)	45%
Final Exam	15%
Total	**100%**

Grade Scale:
This course will be graded on a +/− scale.

A+: 97 – 100%, A: 93 – 96.9%, A-: 90 – 92.9%
B+: 87 – 89.9%, B: 83 – 86.9%, B-: 80 – 82.9%

C+: 77 – 79.9%, C: 73 – 76.9%, C-: 70 – 72.9%

D+: 67 – 69.9%, D: 63 – 66.9%, D-: 60 – 62.9%

F: < 59.9

Course Assignments:

- **Lecture Videos**: Lecture videos are posted in a module by Monday mornings. The lecture videos are recordings of me working through the note handouts. You are expected to watch the lecture videos completely. Completing the assignments successfully is exponentially harder without watching the lectures.

  In addition, I provide note handouts through Canvas. As a means of proof that you watched all lectures, you are **required** to turn in a copy of your lecture notes on Canvas due on each exam day. The handouts are printable and downloadable, but if you choose not to print you may follow along by writing the notes in a notebook, but you are still required to submit the notes for each section. I do not provide completed notes on Canvas, you are expected to watch the videos for notes.

- **Discussions**: Weekly discussions will be posted on Canvas. There will also be an introduce yourself discussion. A typical weekly discussion involves posting a question or answering a fellow students' question in regard to homework, lecture videos, and other class content.

- **Homework Assignments**: Homework will be assigned weekly and completed using WebAssign. You can access WebAssign on our course's Canvas page. Homework is so important for this class as it is your opportunity to practice and perfect the skills taught in this class. Do not get behind on completing homework! I happily welcome questions in student hours and over e-mail. Homework assignments will be due before exams. For example, Exam 1 covers sections 10.3-11.3, so the homework assignments for Sections 10.3-11.3 are due the day before Exam 1.

- **Midterm Exams**: Exams are my opportunity to assess the learning that has happened in this course. Exams will be given in two portions (1) a WebAssign portion and (2) a handwritten portion. Do note that even though exams are on WebAssign, you will most likely need pen and paper while working on the midterm. You are allowed 2 attempts per question. The handwritten portion is a separate set of problems which you will submit a PDF copy of "by-hand" solutions in Canvas. Exams are open in a 24-hour window. Friday at 9 AM to Saturday 9 AM. (*Note: These are Pacific Standard Time*)

  Both portions are available for 24 hours. However, the WebAssign portion is timed, 2 hours once you start. For example, if you start the exam at 5 PM Thursday, you must finish the WebAssign portion by 7PM Thursday. The handwritten portion is available for the 24 hours and is to be turned in via Canvas. There will be three midterm exams. On each exam you will be allowed a

half-sheet, 8.5'' x 5.5'' (front and back) of notes, which you must turn-in with each exam. On exams you may use your calculator.

- **Final Exam**: There will be a cumulative final exam given on **Friday, August 5.** You must take the final exam to pass this course. You will be allowed 1 page (8.5''x11'') front and back of notes and your calculator. There are WebAssign and Handwritten Portions. For the WebAssign portion, you are allowed 3 hours and 3 attempts.

Exam Dates:

- Exam 1: Friday July 8, 2022
- Exam 2: Friday July 22, 2022
- Exam 3: Friday July 29, 2022
- Final Exam: Friday August 5, 2022 (due 8/5 at 11:59 PM)

Canvas and Contact Information

The course Canvas page will be where I post documents related to the course including homework, syllabus, schedule, etc. It will also be where I post course announcements. I can be contacted through the Canvas inbox and through e-mail. I will post a weekly module with all material you will need throughout the week, except the homework on WebAssign. You should be visiting the Canvas page frequently throughout the week.

The best way to contact me outside of class is by email at lazarandrew@fhda.edu. During the week, I typically respond to emails within 24 hours. On the weekend, I will respond within 24 – 48 hours.

Course Description:

Students in this course will learn about infinite series, lines, and planes in three dimensions, vectors in two and three dimensions, parametric equations of curves, derivatives, and integrals of vector functions.

Attendance:

Our course is a fully online class, as such attendance is defined in a different way. I consider regular "attendance" watching the weekly lecture videos in full, completing the lecture notes, and assignments.

Civility and Non-Discrimination

I am excited to have students in my class and am always willing to teach and guide them. Students are expected to maintain respectful behavior toward fellow students and the instructor. A benefit of being a part of this college is being surrounded by individuals of all perspectives, genders, ethnicities, faiths, cultures, and backgrounds who are pursuing their educational goals. All of you are making personal sacrifices to be here and I want those sacrifices to be respected and worth it. I request that we all work together to maintain a class environment that is civil, respectful, and free of discrimination.

Academic Integrity

Here at De Anza College, your work is valued. Academic integrity standards of the college will be held in this classroom. You are responsible for knowing and following the college's academic honesty policy, available [here](). Furthermore, cheating on an exam or quiz will result in a "0" score on that exam or quiz. If it is on an exam, your final cannot be used to replace the score.

Dropping The Class

The last day to <u>Add</u> a class is **Friday July 1, 2022**. The last day to <u>Drop</u> a class is **Monday, July 4, 2022**. It is the students' responsibility to add/drop classes by the deadline.

The instructor reserves the right to drop students who…
- Have not enrolled in WebAssign within the first week of class.
- Have not participated in the first discussion on Canvas.

Special Accommodations

I want to maintain a classroom environment where all students are supported, no matter their needs. If you require any special accommodations for a disability, please let me know as soon as possible so we can take the appropriate measures to support you. You should contact [Disability Support Services]() to make your request.

Additional Services and Resources:
- **Tutoring:** The college offers free tutoring through the following programs.
  - [Student Success Center (SSC) Tutoring Services]()
- **Health and Mental Health Services:** The college offers many [health services]() and provides free [mental health services]() to all students. If you require these services, the department is available for confidential help.
- [**Library Resources**]()
- [**Student Resources**]()

Final Notes

As your instructor, I want you to succeed. If you feel you are falling behind in the class or feel you are struggling, I encourage you to talk to me as soon as possible. We can then work together to set up a plan so that you can succeed. Remember, I am on your side.

Regarding late work, I understand the need to turn in late work can happen for a variety of reasons. The best approach for a situation like this is to communicate with me so I can support you. Homework assignments are due two days per week. The best approach to completing these is to keep pace on the assignments. This will help digest material with deeper understanding.

With the understanding that the best approach is to keep up with work, I understand life happens and submitting an assignment by the due date is not possible. Please do not be worried about this, the following safeguards are here to help in cases like this:
- 2 lowest homework assignments will be dropped
- Your lowest exam score will be replaced by your final score (if your final exam score is greater than your lowest exam score).

Important Dates

- July 2-4 Independence Day Holiday (no classes)
- July 8 Exam 1
- July 22 Exam 2
- July 29 Exam 3
- August 5 Final Exam

This syllabus is subject to change at the instructor's discretion. All changes will be announced in class and on Canvas. It is the student's responsibility to note announced changes to the syllabus.

Schedule

Week	Sections
1 6/27 – 7/1	Section 10.3 Section 10.4 Section 11.1 Section 11.2
2 7/4 – 7/8	Section 11.3 Section 11.4 Section 11.5 Section 11.6

	Exam 1 (Sections 10.3 – 11.3) July 8, 2022 9:00 AM
3 7/11 – 7/15	Section 11.7 Section 11.8 Section 11.9 Section 11.10
4 7/18 – 7/22	Section 11.11 Section 12.1 Section 12.2 Section 12.3 **Exam 2 (Sections 11.4 – 11.11) July 22, 2022 9:00 AM**
5 7/25 – 7/29	Section 12.4 Section 12.5 Section 13.1 Section 13.2 **Exam 3 (Sections 12.1 – 12.5) July 29, 2022 9:00 AM**
6 8/1 – 8/5	Section 13.3 Section 13.4 **Final Exam (Cumulative) August 5, 2022 9:00 AM**

Student Learning Outcome(s):

*Graphically, analytically, numerically and verbally analyze infinite sequences and series from the perspective of convergence, using correct notation and mathematical precision.
*Apply infinite sequences and series in approximating functions.
*Synthesize and apply vectors, polar coordinate system and parametric representations in solving problems in analytic geometry, including motion in space.

Office Hours:

Zoom   M,TH   11:00 AM   11:50 AM