Instructor: Amanda Lien
Office: S75b
Office Hours: Monday and Wednesday, in-person 8:30-9:20am – **Please note: Face masks required**
Tuesday and Thursday, on Zoom 1:00-1:50pm – https://fhda-edu.zoom.us/j/84961071513
Email: lienamanda@fhda.edu

MATH 1A: Calculus I • Sec 52Z • Winter 2023 • Asynchronous

COURSE DESCRIPTION

Fundamentals of differential calculus. (5 units)

PREREQUISITE

MATH 32, 43, or 43H (with a grade of C or better), or appropriate score on Calculus Placement Test within the past calendar year. Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.

REQUIRED MATERIALS

- Laptop/computer with working and reliable Internet
- WebAssign access code
- Scanner or camera (can be your phone's camera) to take pictures of your work
- Graphing calculator (TI-83/TI-83 Plus/TI-84/TI-84 Plus)
- Paper, pencils, erasers, colored pens, ruler/straight-edge
- Lecture notes printed/downloaded to use with each video lecture

E-BOOK (AVAILABLE WITH WEBASSIGN HOMEWORK)

Lecture notes and material will be based on the following textbook:

- *Calculus Early Transcendentals* by James Stewart, 9th edition ISBN: 978-1337613927

Please note that you are not required to have a physical copy of the textbook as the eBook will be available for you to access on WebAssign.

STUDENT LEARNING OUTCOMES

Students successfully completing this course will be able to:

• Analyze and synthesize the concepts of limits, continuity, and differentiation from a graphical, numerical, analytical and verbal approach, using correct notation and mathematical precision.
• Evaluate the behavior of graphs in the context of limits, continuity and differentiability.
• Recognize, diagnose, and decide on the appropriate method for solving applied real world problems in optimization, related rates and numerical approximation.

IMPORTANT DATES*

Wednesday, January 11	Practice Homework & Quiz due at 11:00pm
Friday, January 13	Quiz #1 due at 11:00pm
Sunday, January 15	Introductions Discussion Posts due at 11:00pm
Monday, January 16	MLK Jr. Holiday (no office hours)
Friday, January 20	Quiz #2 due at 11:00pm
Saturday, January 21	Last day to add quarter-length classes
Sunday, January 22	Last day to drop with no record of grade
Friday, January 27	**Midterm #1 due at 11:00pm**
Friday, February 3	Quiz #3 due at 11:00pm Last day to request pass/no pass grade
Friday, February 10	Quiz #4 due at 11:00pm
Thursday, February 16	**Midterm #2 due at 11:00pm**
Friday, February 17	President's Holiday (no office hours)
Monday, February 20	President's Holiday (no office hours)
Friday, February 24	Quiz #5 due at 11:00pm
Friday, March 3	Quiz #6 due at 11:00pm Last day to drop with a "W"
Friday, March 10	**Midterm #3 due at 11:00pm**
Friday, March 17	Quiz #7 due at 11:00pm
Friday, March 24	Quiz #8 due at 11:00pm
Sunday, March 26	Extra Credit due at 11:00pm (optional)
Wednesday, March 29	**Final Exam due at 11:00pm**

* The instructor reserves the right to adjust any due dates and times for quizzes and exams. Any changes will clearly be communicated well in advance via email.

* Please see the detailed calendar at the end of this syllabus for a better idea of what to expect each week.

* All times listed on this syllabus are in **Pacific Standard Time**. Please convert the times accordingly if you are located in a different time zone.

How will we learn math online?

This course will rely heavily on the use of Canvas (https://deanza.instructure.com/). We will be learning fully online or *asynchronously*, meaning that at your own pace, you will watch video lectures, complete homework assignments, and take either a quiz or an exam **every week** this quarter. There will be set due dates for all of the homework assignments, quizzes, and exams. This 5-unit math course will take you approximately 10-15 hours per week to complete. If you know right now that you will not be able to commit to these hours, you may want to consider taking this class another time. Make-up quizzes/exams will not be offered.

I will pre-record the lessons on Zoom for each week and post the links on Canvas. Although you will be able to watch the videos at your own time and pace, you are expected to complete them in a timely manner so that you are ready to take the quiz/midterm and submit them by Friday at 11:00pm of that week (with the exception of the second midterm due to the President's Holiday). It is very easy to fall behind in an online class, so you are encouraged to set aside at least 2 hours each day to dedicate to this class as opposed to doing several hours of work in one day.

How do I access my homework assignments?

Homework will be assigned through WebAssign. You will access each homework assignment by clicking on the links on Canvas. You are permitted five (5) submissions for each problem. If you use up all five submissions, I am not able to grant extra submissions. WebAssign will mark each problem as correct (green check mark) or incorrect (red x). If you are on your third attempt and your answer is still incorrect, you should reach out to me as soon as possible to ask for help. You could also post questions in the discussion boards.

The homework will be based on the sections that I cover in the videos for each week. You should watch the videos before starting the homework as I may offer hints and tips. The links for the homework will be

available to you starting Sunday of each week at 7:30am and are due the following week on Wednesday at 11pm. This gives you plenty of time (about eleven days) to work on each week's homework assignments and to ask any questions. Please note that although you are given eleven days to submit the assignments, you should not wait until the last minute to start them. In fact, it would be better if you can get most of them done by the end of the week so that you will have practiced similar problems that may appear on your weekly quiz. Please pay careful attention to due dates. I will not accept late work for any reason and am not able to grant extensions.

You can still access the homework assignments after the due date as well as view the answer key. To access previous homework assignments, you will need to click on the link for that assignment on Canvas. While you are not able to change your score after the due date, you can practice working on these problems to prepare for quizzes and exams.

WebAssign offers two purchasing options: Single Term or Multi Term (lifetime of edition)

The single term option may be used for one quarter and the multi-term option costs $60 and may be used for lifetime. The multi term option is best for students who plan to continue taking Math 1B, 1C, and/or 1D at De Anza with instructors who use WebAssign. You will be able to use WebAssign's trial period for free during the first two weeks of the quarter. After two weeks, you are required to purchase access so that you may continue to do the homework online. I will not be able to accept any other form of homework, so please make sure that you are able to use WebAssign if you plan to stay enrolled in this course.

How will I ask you questions if I need clarification on the homework and/or video lectures?

There are three ways for you to reach me: office hours, email, and Canvas Discussion board

1. I will be available in my office S75b (located in the S7 building, on the side facing the streets) for **in-person office hours** on Mondays and Wednesdays from 8:30-9:20am. Please note that face masks are required at all times in this office space. For health safety reasons, I will not be able to admit students into in-person office hours without a face mask.

   I will be available for **online office hours** each week on Tuesdays and Thursdays from 1:00-1:50pm. Use this link during that time frame to chat with me: https://fhda-edu.zoom.us/j/84961071513

   I have chosen to enable the use of "waiting rooms" in Zoom office hours so that each student may privately speak to me during office hours. If you see that you are in the waiting room, please wait for me and I will be with you as soon as I am done helping the previous student(s). You are not expected to use your webcam during office hours, but it is helpful if you can use the microphone feature to talk to me. Zoom also offers a chat feature where you can type your questions to me, though I prefer that you talk to me using the microphone during office hours.

   If my office hour does not work for your schedule because you have a synchronous class happening at that same time, you may request an appointment for a different time to meet with me online OR you may use the other two options below to communicate with me.

2. I check my email regularly. You are welcome to send me an email with any questions, comments, or concerns. My email is lienamanda@fhda.edu. On Monday through Thursday, you can expect to get a response from me within 24-48 hours. I may not check my email on the weekends. Please note that if you are emailing me about a *specific* homework question or clarification question about the video lectures, I may request that you post that question on Canvas Discussion (see below), especially if I think your question will benefit the learning of your fellow classmates. In that case, you will post your question on the Discussion board on Canvas, and I will answer your question there. That way, other

students in the class who may have had a similar question can view the response and even add follow-up questions.

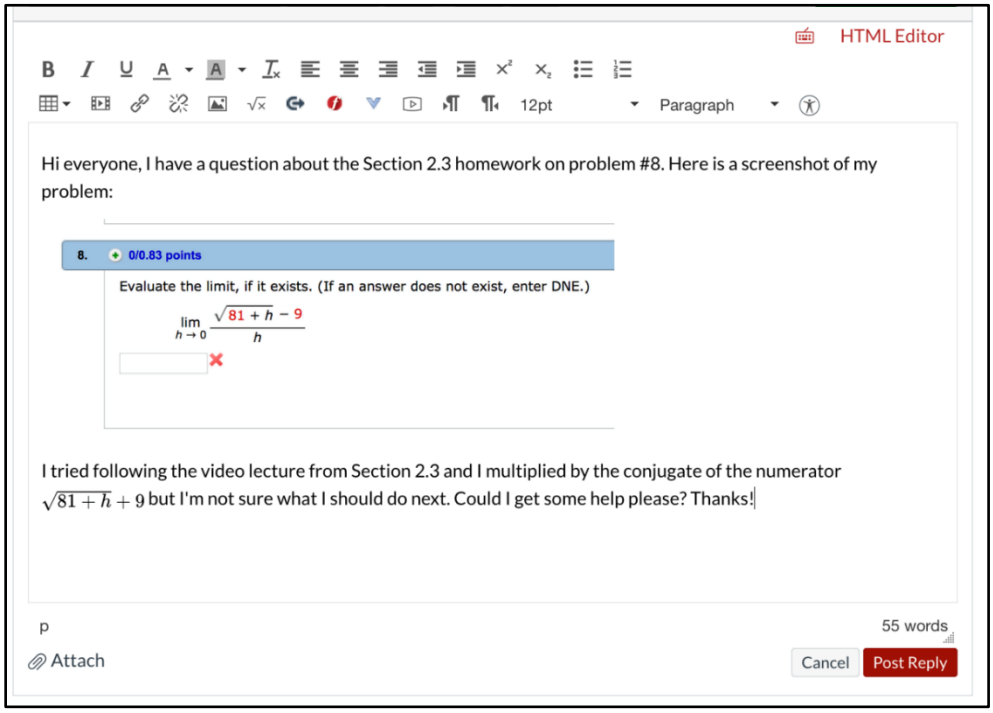
3. Since the class will be asynchronous, I wanted a way for us all to be able to chat and check in with each other as needed during the quarter. The best way to stay connected online will be with the use of the Discussion board on Canvas. Please try to use the Discussion board to ask me homework questions outside of office hours. If you email me, it is likely that I may ask you to post on the Discussion board anyway.

   I ask that we practice proper online positing etiquette when using the Discussion board:

   - **Be respectful to each other.** We want this to be a positive and safe learning environment where students can comfortably have a discussion and ask questions without feeling judged. We are all learning together, and these discussions serve as another form of support.
   - **Be specific.** If you have a question regarding a problem from WebAssign, please specify the problem number as well as the section it is from so that we can find it. Please also copy and paste the problem directly into the discussion (or take a screenshot and add it there). Mention any methods or techniques you may have tried on this problem before you got stuck. If you have a question about something from the video lectures, please specify which video and give a rough time stamp.
   - **Check to see if anyone asked a similar question before posting a new thread.** You can add follow-up questions to a preexisting thread that someone may have already started. Just click "Reply". This will keep our discussions more organized.

   Here's a good example of how you can post your questions on Canvas Discussion:

   First, please locate the correct discussion thread by determining what Week # your question is from. You can also find the specific discussion board within each weekly module. This way, we can try to keep our threads organized and easier to navigate.



I am encouraging everyone to check the Discussion boards regularly. If a fellow classmate posts a question that you can answer, please do so by clicking on "Reply" on the bottom right corner of their post. I strongly believe that if you are able to explain a concept to someone else, it means that you understand the material yourself. Don't worry about making mistakes when asking or answering questions. **Mistakes are good for the learning experience.** I want us to make mistakes so that we can learn from them. If no one responds to your question after 24 hours, I will respond. For that reason, you should not wait until the day before homework is due to post questions. Post them early in the week to give everyone (myself included) enough time to answer them.

I *may* consider awarding extra credit points to students who regularly post quality questions and/or answers on the Discussion board. This will be decided based on how the Discussion board plays out during the quarter.

When and how will we take the quizzes? What will be covered on the quizzes?

We will take a total of eight quizzes this quarter that will be available to you on Sunday at 7:30am and due on that Friday at 11:00pm of each week unless a midterm exam is scheduled for that week. The quizzes will be taken on Canvas and can be found in that week's Module. Each quiz will consist of at most 3 different questions and a final question asking you to submit pictures, scans, or screenshots of your written work. Each quiz is worth a total 10 points. Since you are asked to submit your written work, it's important that you have scratch paper and pencil ready (or you can use a tablet).

The quiz will include questions based on topics that were covered during that particular week and/or the previous week. This is, again, why it is very important that you stay on track and keep up with the weekly video lectures. You are permitted to use your graphing calculator and lecture notes during the quiz. Each quiz is designed to take about 30 minutes to complete, but you will be given 90 minutes to complete the quiz problems and upload your work. The clock will start counting down as soon as you click on the link to the quiz. Please make sure that you are ready before clicking on the link. After 90 minutes, the quiz will automatically be submitted on Canvas. You will be required to show your work/justification for each problem on the quiz. You may do your handwritten work with pen/pencil and paper or if you have a tablet, you may do so there. After your answers are selected or entered, you will submit your handwritten work in the last question of that quiz by uploading a picture/scan/screenshot. This seems like an extra step, but I am asking for this written work for your benefit. That is, if the question on the quiz were asking you to solve for x in the linear equation $3x+4=7$ and you answered $x=\frac{2}{3},$ which of course is incorrect, then Canvas will automatically mark that answer as incorrect and you would earn 0 points for that problem. However, because you uploaded your work for this problem, I may see that you did something like this:

$$\begin{array}{rcl} 3x+4 & = & 7 \\ -4 & & -4 \\ \hline 3x & = & 2 \\ x & = & \frac{2}{3} \end{array}$$

Based on this work, I can see that you understood the process of solving a linear equation by isolating the variable x, but made an arithmetic error in subtracting 4 from 7. In this case, I would be comfortable to award you partial credit for this problem. Without any work submission, it would appear that $x=\frac{2}{3}$ was a random guess and no partial credit would be awarded in that case.

In the same way, if you submitted the answer $x = 1$, which is correct, but your submitted work makes absolutely no sense mathematically, it is possible that I may deduct some or all of the points from your quiz for that problem. **You will earn 1 point towards your quiz grade for uploading your work.**

In short, no work = no credit. Please note that I reserve the right to deduct partial or all points from your quiz score if you do not upload your handwritten work justifying your submitted answers. An exception to this rule about showing work is if the problem simply asks you to use your graphing calculator to get an answer. You won't need to show your work for those problems. If you're in doubt, it's better to show work than no work at all (even a written explanation of your answer is better than no work).

To ensure that you have the full 90 minutes to work on the quiz, you should start the quiz no later than 9:30pm on Friday (though it is encouraged that you start much earlier in the week since the quiz will be available to you on Sunday at 7:30am). The quiz will close at 11:00pm on Friday and become inaccessible. No make-up quizzes will be given for any reason.

You will not be able to view the answer key until after the due date. I will check your answer submissions carefully and adjust the scores based on the submitted work.

To get an idea of how to submit your quiz answers and quiz work, there will be a practice quiz where you will have an opportunity to practice uploading files in the Orientation Module during Week 1 of the quarter.

When and how will we take the exams? What will be covered on the exams?

There are a total of three midterms and one final exam this quarter. The midterms will be taken in Weeks 3, 6, and 9 and the final exam will be taken during Finals Week.

Just like the quizzes, you will be asked to submit your answers AND submit a picture or a scan of your **handwritten work** on Canvas for each exam. The midterms will be based on the previous weeks' material. That is, Midterm #1 in Week 3 will be based on the material from Weeks 1 and 2. Midterm #2 in Week 6 will be based on the material from Weeks 3, 4, and 5. And Midterm #3 in Week 9 will be based on the material from Weeks 6, 7, and 8. The final exam will be cumulative, covering the material from Weeks 1-11.

Also like the quizzes, the midterms will be available to you on Sunday at 7:30am and due on that Friday at 11:00pm of that same week (with the exception of Midterm #2 that will be due on Thursday at 11:00pm since the President's Holiday falls on a Friday). See the detailed calendar at end of syllabus. You will have 180 minutes to complete the midterm and the clock will start counting down as soon as you click on the link. Please make sure that you are ready before clicking on the link.

The final exam will be available on Sunday at 7:30am on Finals Week and due by Wednesday at 11:00pm that same week. You will have 180 minutes to complete the final and the clock will start counting down as soon as you click on the link. Please make sure that you are ready before clicking on the link.

What happens if I miss a quiz or a midterm? What happens if I miss a homework assignment?

There are absolutely no make-up quizzes, midterms, or homework this quarter for any reason. Please do not ask me for them as my answer will always be "no." I am choosing to hold strict/firm deadlines in hopes that it will help keep the class on track. You should start planning ahead now to set aside time for these quiz/midterm dates and homework due dates. The due dates for the homework, quizzes, and midterms are on the last page of this syllabus and they will also be listed clearly on Canvas.

I understand that life happens and sometimes we get sick, oversleep, have appointments, forget, etc. To help with this, I am dropping one (1) of your lowest quiz score and two (2) of your lowest homework scores. I will

also replace your lowest midterm score with your final exam score, if it is higher. You can learn more about this in the grading policy/procedure below.

What is the grading policy and procedure?

- There will be three midterms and a final this quarter, all taken on Canvas.
- If your final exam score is higher than any of your midterm scores, the final exam score (excluding any extra credit points) will be used to replace the lowest midterm score. If the lowest midterm score is a result of cheating, it will not be considered for the replacement.
- Your two (2) lowest WebAssign homework score will be dropped. However, I still encourage you to do all assignments in order to get the most out of this course. Remember that practice is key!
- Your one (1) lowest quiz score will be dropped.
- The grades for the exams will be changed only if there is a clear error on my part, such as adding up marks incorrectly or if Canvas graded something incorrectly. Problems must be brought to my attention immediately.
- An incomplete grade (I) is rarely assigned. It will only be assigned in extreme situations (i.e. unforeseeable emergency and justifiable reason at the end of the term that prevent you from completing the course). You must be in good standing with near-perfect attendance/participation and an overall grade of a 70% (C) or greater in order to request for an incomplete grade.

Breakdown of grades:	
Homework	20%
Quizzes	20%
Midterm 1	15%
Midterm 2	15%
Midterm 3	15%
Final Exam	15%

Quarter grade:			
≥ 100%	**A+**	78-79.9%	**C+**
93-99.9%	**A**	70-77.9%	**C**
90-92.9%	**A-**	68-69.9%	**D+**
88-89.9%	**B+**	63-67.9%	**D**
83-87.9%	**B**	60-62.9%	**D-**
80-82.9%	**B-**	0-59.9%	**F**

Final grades are non-negotiable. You should monitor your scores in the Canvas Gradebook regularly throughout the quarter. If there are any discrepancies, they should be brought to my attention as soon as possible.

ACADEMIC DISHONESTY

By enrolling in this class, you agree to uphold the standards of academic integrity as outlined in the current De Anza college catalogue. Dishonesty includes but is not limited to having someone other than yourself take the course, plagiarizing, knowingly assisting another student in cheating or plagiarism, or knowingly furnishing false information to college staff, faculty, administrators or other officials. **If you are observed cheating, you may receive an F on the assignment/exam and be dismissed from the course. Furthermore, the incident will be reported to the Dean of Student Development for review and a note will be made in your school records. Please do not give me any reason to suspect cheating.**

CODE OF STUDENT CONDUCT

The college has an obligation to specify those standards of behavior essential to its educational mission and campus life. The students who are in violation of the Code of Student Conduct are subject to disciplinary sanctions which apply at all times on campus as well as to any off-campus functions sponsored or supervised by the college.

ACCESSIBILITY ACCOMODATIONS

If you have a documented disability and wish to discuss academic accommodations, or if you would need assistance in the event of an emergency evacuation, please inform me as soon as possible.

MASK POLICY

Face masks are required at all times in my office this quarter for everyone's health and safety. I sincerely appreciate your support in helping keep our community safe.

LAST NOTE

Please remember that you are accountable for your education. This means that if you are having trouble understanding a concept presented in the videos, I encourage you to ask questions in office hours, on Canvas Discussion, or you can just email me. I am here for you and want you to be successful in this course. Do not wait until the end of the quarter to realize that you need help. Math is a hierarchical subject – it continues to build up on knowledge from previous material, so it would be to your advantage to stay on track with each week's material.

By enrolling in this course, you are agreeing to all of the policies and procedures as outlined in this syllabus.

	Sun	Mon	Tue	Wed	Thur	Fri
Week 1: Orientation Sec 2.1, 2.2	Practice Homework & Quiz available at 7:30am Introductions Discussion available at 7:30am Quiz #1 available at 7:30am Week 1 homework available at 7:30am			Practice Homework due on WebAssign at 11pm Practice Quiz due on Canvas at 11pm		Quiz #1 due on Canvas at 11pm
Week 2: Sec 2.3, 2.5	Quiz #2 available at 7:30am Week 2 homework available at 7:30am Introductions Discussion initial and reply posts due at 11:00pm	Martin Luther King Jr. Holiday (no class, no office hours)		Week 1 homework due on WebAssign at 11pm		Quiz #2 due on Canvas at 11pm
Week 3: Sec 2.6, 2.7	Midterm #1 available at 7:30am Week 3 homework available at 7:30am			Week 2 homework due on WebAssign at 11pm		Midterm #1 due on Canvas at 11pm
Week 4: Sec 2.8, 3.1, 3.2	Quiz #3 available at 7:30am Week 4 homework available at 7:30am			Week 3 homework due on WebAssign at 11pm		Quiz #3 due on Canvas at 11pm
Week 5: Sec 3.3, 3.4, 3.5	Quiz #4 available at 7:30am Week 5 homework available at 7:30am			Week 4 homework due on WebAssign at 11pm		Quiz #4 due on Canvas at 11pm
Week 6: Sec 3.6, 3.9	Midterm #2 available at 7:30am Week 6 homework available at 7:30am			Week 5 homework due on WebAssign at 11pm	Midterm #2 due on Canvas at 11pm	President's Holiday (no class, no office hours)
Week 7: Sec 4.1, 4.2	Quiz #5 available at 7:30am Week 7 homework available at 7:30am	President's Holiday (no class, no office hours)		Week 6 homework due on WebAssign at 11pm		Quiz #5 due on Canvas at 11pm
Week 8: Sec 4.3, 4.4	Quiz #6 available at 7:30am Week 8 homework available at 7:30am			Week 7 homework due on WebAssign at 11pm		Quiz #6 due on Canvas at 11pm
Week 9: Sec 4.5,4.7	Midterm #3 available at 7:30am Week 9 homework available at 7:30am			Week 8 homework due on WebAssign at 11pm		Midterm #3 due on Canvas at 11pm

Week 10: Sec 4.8, 4.9	Quiz #7 available at 7:30am Week 10 homework available at 7:30am			Week 9 homework due on WebAssign at 11pm		Quiz #7 due on Canvas at 11pm
Week 11: Sec 3.10, 10.1, 10.2 Extra Credit	Quiz #8 available at 7:30am Week 11 homework available at 7:30am Extra Credit available at 7:30am			Week 10 homework due on WebAssign at 11pm		Quiz #8 due on Canvas at 11pm
Finals Week	Final Exam available at 7:30am Extra Credit due at 11pm			Week 11 homework due on WebAssign at 11pm Final Exam due on Canvas at 11pm		

Student Learning Outcome(s):

*Analyze and synthesize the concepts of limits, continuity, and differentiation from a graphical, numerical, analytical and verbal approach, using correct notation and mathematical precision.

*Evaluate the behavior of graphs in the context of limits, continuity and differentiability.

*Recognize, diagnose, and decide on the appropriate method for solving applied real world problems in optimization, related rates and numerical approximation.

Office Hours:

M,W	08:30 AM	09:20 AM	In-Person	S75b
T,TH	01:00 PM	01:50 PM	Zoom	