MATH 1A – 55Z Calculus (5 Units)

Asynchronous Learning on Canvas

Online (Canvas) CRN: 01185

Instructor: Nahrin Rashid

Email: rashidnahrin@fhda.edu or Canvas Inbox

Office hours via Zoom: Monday & Wednesday 11:00 AM – 12:45 PM or by appointment

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Support: It can be frustrating when you need help, so please know that I am here to help you manage challenges and any frustration you may experience with the course. Please maintain close contact with me and I will do my best to support you.

How to reach out: If you have a question, the quickest and easiest way to contact me is via the Canvas inbox or email me rashidnahrin@fhda.edu. If you email me during my online office hours, I'll try to respond immediately. If you email me outside of my office hours, then I'll try to respond to you within 48 hours. From our course, click on "Inbox" in the left global navigation menu to access your Canvas conversations.

Tutoring Services: Do not wait to get extra help. Contact me or tutoring to get help!
Tutoring services begin in the **second week** of the quarter. We've made it even easier to access our peer tutoring services and workshops on Zoom. Just click the yellow buttons to check open hours for the subject areas you're interested in. Follow the prompts on your screen to sign in to the eSARS system and select from a list of available services – including drop-in sessions, weekly scheduled sessions and workshops. One-on-one sessions typically are all quarter long during the regular fall, winter and spring quarters and are not offered during summer. We're in Building **S43** and on the third floor of the Advanced Technology Center (AT).
Drop-In Service Times
Monday - Thursday 9:00am — 6:00pm
Friday 9:00am — 12:30pm
Saturday & Sunday **CLOSED**

For drop-in tutoring outside these hours please use our *online tutoring* vendors (24/7 for most subjects)

Prerequisite: MATH 32, 32H, 43, or 43H (with a grade of C or better), or appropriate score on Calculus Placement Test within the past calendar year.

Course Description: This course covers the fundamentals of differential calculus.

Textbook: *Calculus Early Transcendentals;* 9th edition, by James Stewart, bundle with Webassign access code. The eBook with WebAssign can be purchased for $60 directly through the link I will provide.
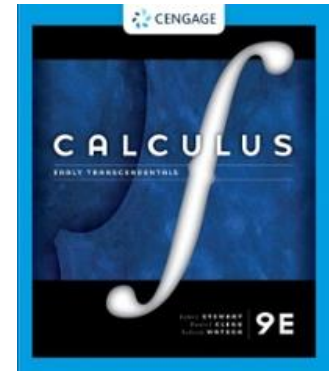
Calculator: A basic scientific calculator is required for this class such as Texas Instruments TI30XIIS Scientific Calculator. TI-83 Plus/TI-84 Plus calculator recommended but not allowed on Exams. This can be a physical or an online app, such as the one at https://www.desmos.com/scientific.

Software: All homework/quizzes will be done online using WebAssign which is an internet-based software. You will need to register at www.webassign.net to use this internet-based software. You will need the class key given by me in order to self-register. **Class key for WebAssign: deanza 9896 4515**
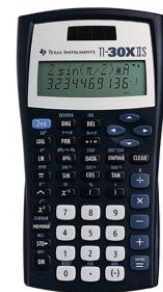
Online Lectures/Canvas: Plan to log in to Canvas several times each week. This class is asynchronous so there will not be live lectures. I will post pre-recorded lecture videos for each section on Canvas under Modules. I will post two or three videos per week. You'll need to watch the lecture videos and take notes. If you have any questions, you can ask me during office hours or email me. You will be learning online or asynchronously, meaning that at your own pace, you will watch lecture videos, complete homework assignments, and take either a quiz or an exam every week. There will be set due dates for all of the homework assignments, quizzes, and exams. 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/exam and submit them by due date. It is very easy to fall behind in an online class, so you are encouraged to set aside at least 1 to 2 hours each day to dedicate to this class as opposed to doing all of the work in one day. It is strongly recommended that you download the Canvas app if you have a smart phone.

Student Conduct: You are expected to be honest and ethical at all times in the pursuit of academic goals. When completing your work on an assignment or in taking a test, be sure to do your own work. Copying or using another person's work is plagiarism or cheating, so please be sure to submit your own work. Anyone caught cheating on an exam will receive an automatic 0 and be reported to the Dean of the PSME Division.

Discussion on Canvas: Even though this is an online class, you are expected to participate. Post and answer questions in Canvas weekly discussion boards. These discussions will count for 5% of your grade.

Homework: Plan to log in to WebAssign daily. Homework will be assigned a few times a week and will have a due date. All homework must be submitted by 11:59 PM on the due date. You must set up an account by Monday, April 11, 2022 or you will be dropped from the class**.** If you have a homework problem you are not able to complete, you can send me your questions on WebAssign by clicking on "Ask my Instructor". At the end of the quarter your lowest homework score will be dropped. Homework will count for 15% of your term grade. Please do not procrastinate! You can request extension on the homework up to five times during the quarter. **Class key for WebAssign: deanza 9896 4515**

Quizzes: There will be a quiz every week via WebAssign assigned intermittently throughout the term to test your skills on the concepts we are covering in class and online. Once you start the quiz, you will have 1 hour to complete it, and you will get two attempts on each quiz. **NO** make-up quiz will be given. To compensate for this, I will drop your lowest quiz score. These quizzes will count for 20% of your grade.

Midterms: There will be four exams during the quarter on WebAssign and Canvas. Each exam will have two parts: an online portion through WebAssign and a handwritten portion which you will upload to Canvas. Once you start the online portion of the exam, you will have 2 hours to complete it. These exams will be completed online and will contain the materials covered in the lectures, online, and in the book. If you are unable to take an exam for any reason, **a makeup exam will not be given**. To compensate for this, I will drop your lowest exam score. These exams will count for 40% of your term grade.

Final Examination: If you do not take the final exam, you **WILL NOT** receive a passing grade. There will be a comprehensive final examination on **Tuesday, June 21.** This test will count for 20% of your term grade.

Accessibility Accommodations: 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.

Important Dates

- The last day to add classes is Saturday, April 16.
- The last day to drop for a full refund and without a "W" is Monday, April 17.
- Last day to request "Pass/No Pass" is Friday, April 29.
- The last day to drop classes with a "W" is Friday, May 27.
- Memorial Day Weekend - no classes, offices closed, May 28 – May 30
- Juneteenth Holiday - no classes, offices closed is Monday, June 20
- Final Exam Week – June 21 – June 24

Grade Breakdown

A+: 99% and above	B+: 87 - 89%	C+: 77 - 79%	D: 63 - 66%
A: 93 - 98%	B: 83 - 86%	C: 70 - 76%	D-: 60 - 62%
A-: 90 - 92%	B-: 80 - 82%	D+: 67 - 69%	F: < 60%

Tentative Schedule for Math 1A, Spring 2022

Week 1	Section 2.1 Section 2.2
Week 2	Section 2.3, Section 2.5, Section 2.6*
Week 3	Section 2.7, Section 2.8 Exam 1: Friday, April 22 (Section 2.1, 2.2, 2.3, 2.5, 2.6, 2.7)
Week 4	Section 3.1, Section 3.2, Section 3.3
Week 5	Section 3.4, Section 3.5
Week 6	Section 3.6, Section 3.9 Exam 2: Monday, May 9 (Section 2.8, 3.1, 3.2, 3.3, 3.4, 3.5)
Week 7	Section 3.10, Section 4.1, Section 4.2
Week 8	Section 4.3, Section 4.4 Exam 3: Friday, May 27 (Section 3.6, 3.9, 3.10, 4.1, 4.2, 4.3)
Week 9	Section 4.5, Section 4.7
Week 10	Section 4.8, Section 4.9
Week 11	Section 10.1, Section 10.2 Exam 4: Monday, June 13 (Section 4.4, 4.5, 4.7, 4.8, 4.9)
Week 12	Finals Week Final Exam: Tuesday, June 21, Comprehensive

This syllabus is subject to change at the instructor's discretion.

2.6 "precise definition" is optional*

10.2* cover differentiation only

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.