MATH 1A – 25Z Calculus (5 Units)

MTWTh 12:30 – 2:45 PM, Online, CRN: 13024

Instructor: Nahrin Rashid

Email: rashidnahrin@fhda.edu or Canvas Inbox

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: On Zoom

- Monday 10:00 am to 5:00 pm
- Tuesday 10:00 am to 5:00 pm
- Wednesday 10:00 am to 5:00 pm
- Thursday 10:00 am to 5:00 pm

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 from Cengage.

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 5710 8523**

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: 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 10:00 AM on the due date. You must set up an account by Friday, July 7 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 5710 8523**

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. These quizzes will count for 20% of your grade.

Midterms: There will be three exams during the quarter on WebAssign. Once you start the exam, you will have 2 hours to complete it. These exams will contain 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 **Thursday, August 10. Final Exam will be conducted on Zoom from 12:30 to 2:45 PM.** You must have your cameras on during the final exam. 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.

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, Summer 2023

Week 1	**Section 2.1, 2.2, 2.3, 2.5** **July 4 Independence Day holiday - no classes; offices closed**
Week 2	**Section 2.6*, 2.7, 2.8, 3.1** **Exam 1: Friday, July 14 (Section 2.1, 2.2, 2.3, 2.5, 2.6, 2.7)**
Week 3	**Section 3.2, 3.3, 3.4, 3.5**
Week 4	**Section 3.6, 3.9, 3.10, 4.1, 4.2** **Exam 2: Monday, July 24 (Section 2.8, 3.1, 3.2, 3.3, 3.4, 3.5)**
Week 5	**Section 4.3, 4.4, 4.5, 4.7** **Exam 3: Friday, August 4 (Section 3.6, 3.9, 3.10, 4.1, 4.2, 4.3, 4.4)**
Week 6	**Section 4.8, 4.9, 10.1, 10.2** **Final Exam comprehensive, Thursday, August 10**

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.