Syllabus – Math D001A calculus 1

Instructor: Dr. Seyed Yashar Zaheriani
Email: zaherianiyashar@fhda.edu
Office Hours: Friday, 8:00 – 9:00 AM (via Zoom) – or by appointment
Class Schedule: Monday/Wednesday , 13:30 – 15:45 AM
Textbook: Calculus Early Transcendentals, 9th Edition, Steward, Clegg, and Watson
Room: G1

Course description

This course is a part of the learning community. Pushing Past our Limits: Achieving Success Together in Calculus.
This learning community consists of Math 1A and CIS 22A. This document is the syllabus for Math 1A: Calculus. This course covers the fundamentals of differential calculus. Specifically, the course includes the basic concepts of analytic geometry, limits, derivatives, and their applications. The topics covered will include graphs and derivatives of algebraic, trigonometric, exponential, logarithmic, and hyperbolic functions. Applications, such as, motion, differentials, related rates, graphing, and optimization, will be covered. There will be a greater focus on mathematical rigor than is often present in precalculus courses, with extra emphasis on definitions, precise notation and logic.

Pre-requisites

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

Textbook

Calculus Early Transcendentals, 9th Edition, Steward, Clegg, and Watson

Required Materials

- Calculator: TI-83+ or TI-84 (required for labs and projects)
- Instructions for calculator use will be provided in lessons and linked tutorial videos
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Homework

Homework and projects are a core part of this course:
- Assigned regularly based on class progress
- Help clarify ideas introduced in lectures and prepare for quizzes/exams
- Group collaboration encouraged . Labs use TI graphing calculators and may be completed individually or in groups Submit via Canvas (PDF/photo) or by email. No late labs accepted.

Attendance and participation

Attendance is expected at all sessions. Students are responsible for catching up on missed material. Participation is essential, both in class and through group collaboration.

Learning Goals

By the end of this course, you should be able to:
1. Understanding the definitions.
2. Correctly apply concepts and procedures to real-world problems
3. Break complex problems into manageable parts

4. Combine concepts in new ways to solve unfamiliar problems
5. Compare and evaluate statistical information
6. Develop confidence in mathematical learning by reasoning, questioning, and problem solving (not memorization alone)

Course Policies

1. No late work accepted under any circumstances
2. No make-up quizzes or exams
3. All submissions must be in PDF format via Canvas
4. Students are responsible for keeping up with class progress and practice
5. Instructor reserves the right to update the syllabus (announcements via Canvas)
6. Grades are not discussed via email (schedule Zoom meetings instead)7. Class is synchronous; lectures are not recorded
8. Students must arrange study groups and review missed materials themselves
9. All questions are welcome office hours are for your success
10. Students must keep track of academic calendar dates

Tips for Success

- Learn concepts, don't just memorize formulas
- Read problems carefully, strategize before solving
- Don't fear mistakes – persistence is key
- Spend at least 2 hours of study per lecture hour outside of class
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Academic Integrity

Cheating or plagiarism results in a failing grade and will be reported. Minimum penalty: zero on assignment/exam.
Refer to: http://www.deanza.edu/studenthandbook/academic-integrity.html

Grading

Homework: 20%
Attendance: 5%
Quiz 1: 5%
Quiz 2: 5%
Quiz 3: 5%
Mid.:30%
Final Exam: 30%

Letter Grades:
A: 94–100%
A-: 90–93%
B+: 87–89%
B: 84–86%
B-: 80–83%
C+: 77–79%
C: 74–76%
C-: 70–73%
D+: 67–69%
D: 64–66%

D-: 60–63%

F: below 60%

Disability Support Services (DSS)

De Anza College supports students with disabilities and provides reasonable accommodations. Contact DSS (RSS Building, Suite 141 | 408-864-8753 | DSS@deanza.edu). Website: https://www.deanza.edu/dsps/

Additional Student Support

- Student Success Programs: http://deanza.edu/studentsuccess/
- Financial Aid Info: http://www.deanza.edu/<inancialaid/
- Installment Payment Plans: http://deanza.edu/cashier/installment_plan.html
- Scholarships: http://deanza.edu/<inancialaid/types/scholarships.html
- Basic Needs Resources: https://www.deanza.edu/resources/

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:

Zoom	M,W,TH	1:30 PM - 3:45 PM
Village in campus	F	8:30 AM - 9:30 AM