

# Math 1A (MPS) Syllabus

Instructor: Xiaoyu Niu

## Course Information

**Course Title:** Calculus

**Term:** Fall 2024

**Meeting Time:** Monday, Tuesday, Wednesday, Thursday 1:30 PM - 3:45 PM (S16)

**Email:** niuxiaoyu@fhda.edu

**Office Hour:** Friday 4-5pm, zoom (Subject to change).

## Course Description and SLO

This course covers the fundamentals of differential calculus. Student learning outcomes include:

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

## MPS Component

The Math Performance Success (MPS) program aims to help all underrepresented students meet their goals by improving student success in math through innovative and collaborative approaches including extended lecture time, in-class tutoring, and embedded counseling services.

Students in the MPS program attend double the class time compared to a standard math course. Tutors are available during the second part of the class to assist students who have questions about the material. Counselors also use the second hour of this class to check-in on students and make sure they are on track and provide support.

Counselor contact information: Luis Carrillo, carilloluisalberto@deanza.edu

## Textbook

*Calculus: Early Transcendentals*, 9th Edition, J. Stewart, Cengage Learning

## Course Policies

- **Attendance:** Students are expected to attend all classes, to show up on time and to stay for the entire class. Any student missing more than 3 classes before the withdraw deadline may be dropped by the instructor. In addition, MPS program requires students to miss less than 2 classes in the first 2 weeks; students missing 2 or more classes in the first 2 weeks will be dropped from the course. Students need to inform the instructor beforehand of necessary absences. If a student decides not to continue with the course, it is the student's responsibility to officially drop the course.
- **Homework:** Homework is done through WebAssign. Assignments are due at 11:59 pm on Sundays. No late work is accepted.
- **Exams:** There will be three midterm exams (on 10/15, 11/7 and 12/3). There will be no make-up midterm exams under any circumstances. If there is a valid excused absence (absences excused by state law), the missing midterm exam score will be replaced by the final exam score, and necessary documentation will be required.  
The final exam must be taken at the officially scheduled time. Students are required to take the final exam in order to pass the course.
- **Academic Integrity:** Cheating and plagiarism will not be tolerated. Violations will result in disciplinary action.

## Grading

- Homework: 20%
- In Class Activities: 6%
- Midterm Exams(3): 54% (18% each)
- Final Exam: 20%

Grade	Percentage Range
A	[93, 100]%
A-	[90, 93)%
B+	[87, 90)%
B	[83, 87)%
B-	[80, 83)%
C+	[77, 80)%
C	[70, 77)%
D	[65, 70)%
D-	[60, 65)%
F	Below 60%

## Note

This syllabus is subject to change at the discretion of the instructor. Students will be notified in advance of any changes.

**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	F	4:00 PM	5:00 PM
Zoom,By Appointment	F	3:00 PM	4:00 PM