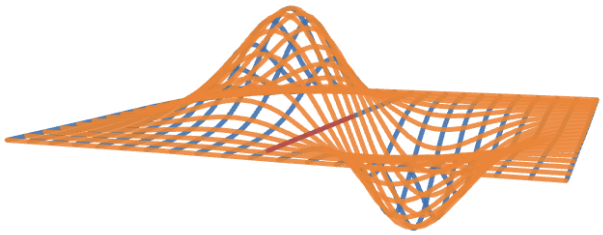

Math 1B MPS
Spring 2025

Instructor: John Jimenez	**Class :** MTWR 10:30a-12:20p MLC 112
Email: jimenezjohn@fhda.edu	**Office hours (by Appointment):** F 8:00a-12:00p via Zoom Schedule appointments in advance here.

Note that this course is a part of the Math Performance Success Program.

Program Mission

The Math Performance Success (MPS) program established at De Anza Community College in 1999, 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.

Program Philosophy

The MPS program team members are dedicated to the philosophy that any willing student with the proper support and services can succeed in mathematics. Instructors, counselors, and tutors collaborate to help students complete their mathematics requirements. **The MPS program is designed for students who have had previous difficulty with Math.**

Structure

What does an MPS Math Classroom look like?

Students in the MPS program are required to attend math class for two hours a day, approximately 10 hours a week, double the class time compared to a stand-alone math course. This extended instructional time, provides ample time for lecture, class activities, mindfulness, and group work. 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 in succeeding in the course.

Important contact information:

Director, STEM Success Program Yvette Campbell, PHD campbellyvette@fhda.edu	MPS Counselor/Coordinator Luis Carillo carrilloluisalberto@fhda.edu
Program Coordinator Deepa Yuvaraj yuvarajdeepa@fhda.edu	Tutors TBA

Required Text and Recommended Materials:

- Textbook: Our (free) textbook will be Calculus Vol 2 from Openstax: https://openstax.org/details/books/calculus-volume-2.

- Access to https://deanza.instructure.com/. Canvas is where all the course information will be available. Information regarding grades, announcements, resources, etc.

Grading:

Exams	Quizzes	Final
50 %	20 %	30 %

Grading scale where x = your grade
A+ $97\% \leq x$
A $92\% \leq x < 97\%$
A- $90\% \leq x < 92\%$
B+ $87\% \leq x < 90\%$
B $82\% \leq x < 87\%$
B- $80\% \leq x < 82\%$
C+ $77\% \leq x < 80\%$
C $70\% \leq x < 77\%$
D+ $67\% \leq x < 70\%$
D $62\% \leq x < 67\%$
D- $60\% \leq x < 62\%$
F $x < 60\%$

Exams 50 %: Three exams will be given throughout the quarter. The lowest exam score will be dropped.

- 4/24 Exam 1
- 5/15 Exam 2
- 6/5 Exam 3

Quizzes 20 %: Weekly quizzes will be given promptly at the start of class at the beginning of each week. The format of quizzes can range from calculation, theoretical, multiple choice, short answer, essay, etc. Quizzes will be timed appropriately depending on the style of questions that are asked.

Final 30 %: The final for this course will be a two-hour cumulative exam on 6/26 1B MPS Thursday from 9:15 AM to 11:15 AM in MCL 112.

Makeup and Assignment Policies: There are no makeup exams, quizzes, or final. All grades are final. If you take your exams, quizzes, or the final in the DSS center, it is your responsibility to reserve a time with the DSS testing facility prior to the assignment date. An assessment is defined as any material that is assigned by the instructor and to be completed by the student for a grade in the course. No calculators will be needed in this class and they will not be allowed on assessments.

Resources to Succeed in this Course:

- The MESA center located in S54 has drop-in tutoring that you should definitely make use of! https://www.deanza.edu/mesa/
- Another great place to find tutors is in Math, Science & Technology Resource Center located in S43. https://deanza.edu/studentsuccess/mstrc/
- After-hours or weekend tutoring**.** See the Online Tutoring page for information about NetTutor (via Canvas) or Smarthinking (via MyPortal).

Classroom Attendance and Participation Protocol: Arrive to class on time. Arriving late is distracting to the class and also counterproductive toward your chances of doing well in the course. Many of the lectures in a math class can be dense and catching up on your own outside of the classroom will be significantly more difficult. The usage of smart devices, phones, or laptops in class is not permitted and they must be put away during lecture. Required usage of a device outlined in documentation provided by the DSS offices will be honored. Otherwise, no usage is allowed. Tablets may be used for note taking but they must be level with the writing surface, not upright.

Disability Statement: If you have a disability related need for academic accommodations or services in this course, you will need to provide me with a Test Accommodation Verification Form (TAV form) from Disability Support Services (DSS) or the Educational Diagnostic Center (EDC). Students are expected to give a two week notice if they are in need of accommodations. For those students with disabilities, you can obtain a TAV form from their DSS counselor (408 864-8753 DSS main number) or EDC advisor (408 864-8839 EDC main number). The application process can be found here: https://www.deanza.edu/dsps/dss/applynow.html

Academic Integrity: Students suspected of academic dishonesty shall be subject to College discipline which include suspension and or expulsion for any of the following misconduct that occurs at any time on campus or at any off campus facility, including internet-based courses held on the worldwide web, or college-approved or sponsored functions. Additionally a failing grade will be given to the student on the exam, quiz, or final that academic dishonesty has taken place. These standards are intended to promote responsible student conduct and fair play. For more details, see Administrative Procedure 5520: Student Discipline Procedures. https://www.deanza.edu/policies/academic_integrity.html.

Tentative Course Schedule:

Week	Section
1	Areas and Distances 1.1 The Definite Integral 1.2 The Fundamental Theorem of Calculus 1.3
2	Indefinite Integrals 1.4 The Substitution Rule 1.5 Areas Between Curves 2.1
3	Volumes Disk/Washer Method 2.2 Volumes by Cylindrical Shells 2.3
4	**4/24 Exam 1** Integration by Parts 3.1 Important Trigonometric Integrals 3.2
5	Work 2.5 Trigonometric Substitutions 3.3
6	Approximate Integrals 3.6 Improper Integrals 3.7
7	**5/15 Exam 2** Arc Length 2.4 Area of a Surface of Revolution 2.4 Center of Mass 2.6
8	Probability Page 407 Integration of Rational Functions by Partial Fractions 3.4
9	Differential Equations 4.1 Separable Equations 4.3 Logistic Growth Function 4.4
10	**6/5 Exam 3** Direction Fields and Euler's Method 4.2
11	Linear Equations 4.5 Review
12	Finals Week: Final is on 6/26 Thursday from 9:15 AM to 11:15 AM in MCL 112

Important Dates:

- April 20 Last day to drop classes without a W
- May 24-26 Memorial Day Weekend - no classes, offices closed
- May 30 Last day to drop classes with a W
- June 19 Juneteenth Holiday - no classes, offices closed
- June 23-27 Final exams
- June 29 Graduation
- For a comprehensive list of important dates like the drop deadline

For a comprehensive list of important dates like the drop deadline
http://www.deanza.edu/calendar/.

Course Description: Fundamentals of differential calculus. (5 units)

Student Learning Outcome(s):

• Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.
• Formulate and use the Fundamental Theorem of Calculus.
• Apply the definite integral in solving problems in analytical geometry and the sciences.

Office Hours:

F	8:00 AM - 12:00 PM	Zoom