Math 32: Precalculus
Fall 2023

Instructor: John Jimenez	**Class (In Person S16):**	M & W 1:30-3:45p
	Class (via Zoom):	T & Th 1:30-3:45p
	Office hours:	M-Th 4-4:50p S76h
Email: jimenezjohn@fhda.edu		

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

How does an MPS Math Classroom look like?

Students in the MPS program 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 TBA
Program Coordinator Deepa Yuvaraj yuvarajdeepa@fhda.edu	Tutors TBA

If you have any questions regarding the program, you can contact myself or anyone listed above. Preferably the counselors.

Required Text and Recommended Materials:
- Textbook: Our (free) textbook will be Precalculus from Openstax: https://openstax.org/details/books/precalculus-2e. Note that this book is available free in the online and PDF format. If you prefer a physical copy, that would be paid out of pocket and is available directly from the website or you can use the PDF file to print at a local printing facility (staples, office dept, a local printing shop).
- Calculator: Although not necessary for most of this course, it can sometimes be helpful to have access to some type of graphing calculator. This can be a physical graphing calculator or a free online graphing tool such as https://www.desmos.com/ or https://www.wolframalpha.com/.
- Access to https://deanza.instructure.com/. Canvas is where all the course information will be available. Information regarding grades, lectures, resources, etc.

Goals for Students in the Course:
- To build a solid foundation for future math courses.
- To build confidence in their academic abilities in the math class and beyond.
- Be able to collaborate and discuss mathematics with classmates.
- To gain intuition behind concepts in the course.

Grading:

Midterm Exams	Homework	Project	Final
45 %	20 %	5%	30 %

Grading scale	
90-99.9% A	70-77.9% C
88-89.9 % B+	68-69.9 % D+
80-87.9% B	60-67.9% D
78-79.9% C+	≤ 59.9 F

Exams 45 %: Midterm exams will be given throughout the quarter. See the schedule at the end of the syllabus for the dates of the midterms. The lowest midterm score will be replaced by the final exam grade.

Homework 20 %: Homework will be assigned at the beginning of each lecture week and will be due one week after it is assigned.

Project 5 %: There will be one project to enrich your understanding of topics studied in the course and beyond.

Final 30 %: The final for this course will be a two-hour cumulative exam. The final exam time for this class is on Monday June 26th from 1:45 PM to 3:45 PM.
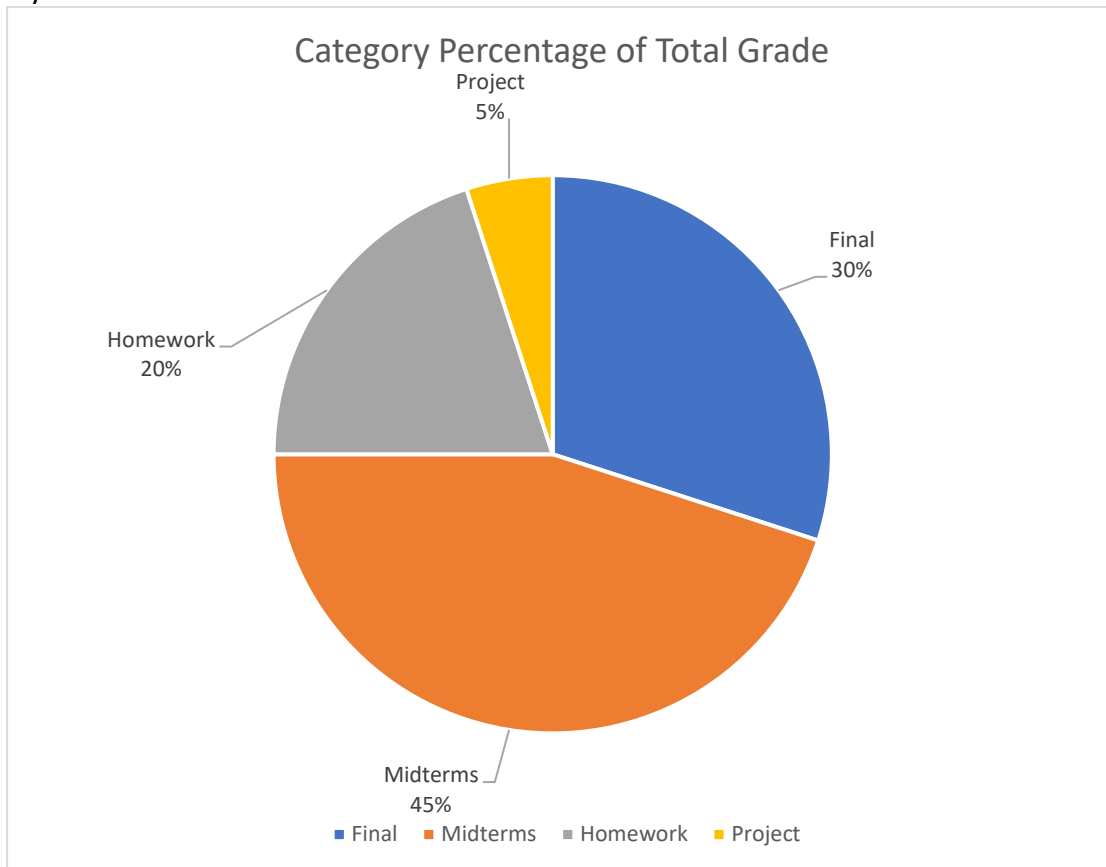

Figure 1: Grade categories for the course as a percentage of total grade.

Assignment submission recommendation: All assignments will have due dates posted but I will still accept your assignment if it is not completed by the due date. If for some reason you cannot turn in an assignment, use a LatePass and turn it in as soon as possible without penalties. This is to avoid falling behind with the material which can be detrimental toward your experience in any STEM course. There is only a finite amount of LatePasses you can use so use them wisely!

To protect students GPA, you may be dropped from the course if:

- You have multiple missing assignments.
- You do not interact with Canvas regularly to keep up with the course.
- Failure to communicate why you miss a class meeting or miss an assignment deadline.

Note that if for any reason you feel like you may need to drop the course, it is your responsibility to do so.

How to Succeed in this Course:

- The Student Success Center tutors and workshops area a great place to start! Watch the SSC Welcome Video to learn more.

Tutoring:

For tutoring through MPS visit https://www.deanza.edu/mps/mpstutoring/index.html.

For tutoring through The Student Success go to http://deanza.edu/studentsuccess and click to join a Zoom tutoring room during open hours.
Workshops: Attend a Skills Workshop, a content-specific math/science workshop, an Accounting chapter review workshop, or a Listening and Speaking workshop.
Resources: Join the SSC Resources Canvas site to see content and learning skills links.
After-hours or weekend tutoring: See the Online Tutoring page for information about NetTutor (via Canvas) or Smarthinking (via MyPortal).

It is known that students who participate in tutoring, group study, or workshops for three or more hours a week succeed at much higher rates than those who do not. The students who most need the help may reluctant, but if you take the first step in seeking resources you will be glad you did.

- I encourage students to ask me any questions about the course content if they wish! You can reach me via Zoom in the times listed on the first page of the syllabus. This is another great place to get help on material related to the course.

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: If it is suspected that academic dishonesty is taking place on an assignment, the college will be notified and will result in a failing grade on the assignment or a failing grade in the class. For further information on academic integrity please see https://www.deanza.edu/policies/academic_integrity.html.

Tentative Course Schedule:

Week	Section
1	5.1 Angles
2	5.2 Unit circle: Sine and cosine functions 5.3 Other trig functions
3	5.4 Right triangle trigonometry 6.1 Graphs of sine and cosine functions
4	6.2 Graphs of other trig functions
5	**Exam 1** **Project 1 assigned** 6.3 Inverse trig functions 7.1 Solving trig equations with identities
6	7.2 Sum and difference identities 7.3 Double-angle, half-angle, and reduction formulas
7	7.5 Solving trig equations 7.6 Modeling with trig functions
8	**Exam 2** 8.1 Non-right triangles: law of sines 8.2 Non-right triangles: law of cosines
9	8.3 Polar coordinates 8.4 Polar coordinates: Graphs
10	**Project 1 due** 8.5 Polar form of complex numbers
11	**Exam 3** 8.8 Vectors Some review
12	**Final** is on Monday June 26th from 1:45 PM to 3:45 PM.

Important Dates:

Date	
April 10	First day of Fall quarter
May 27-29	Veterans Day – no classes
June 2	Last day to drop classes with a W
June 26	Finals Week Final is on Monday June 26th from 1:45 PM to 3:45 PM.

For a more comprehensive list of important dates see http://www.deanza.edu/calendar/.

Course Description: Preparation for calculus: extending the elementary functions of first quarter precalculus to include the theory of periodic functions; composition of trigonometric functions with other elementary functions; polar co-ordinates; further exploration of the complex plane; introduction to the algebra of vectors. (5 units)

<u>Student Learning Outcome(s):</u>

* Formulate, construct, and evaluate trigonometric models to analyze periodic phenomena, identities, and geometric applications.

<u>Office Hours:</u>

M,W	04:00 PM	04:55 PM	In-Person	S76h
W	10:30 AM	12:00 PM	In-Person	Room S55 in the S5 Building