

<b>Instructor:</b>	Lin Zhang <b>Email:</b> <a href="mailto:zhanglinlin@fhda.edu">zhanglinlin@fhda.edu</a> <b>Canvas:</b> <a href="https://deanza.instructure.com/">https://deanza.instructure.com/</a>
<b>Office Hours:</b>	WF 11:30 – 12:30PM (use the Zoom lesson link)
<b>Meeting:</b>	<b>TTh 9:30 – 11:45 AM</b> <a href="https://fhda-edu.zoom.us/j/81841228868?pwd=SWdwNVFISmNQd2s4OWlrTEw4WEp5QT09">https://fhda-edu.zoom.us/j/81841228868?pwd=SWdwNVFISmNQd2s4OWlrTEw4WEp5QT09</a> Meeting ID: 818 4122 8868 Passcode: 172779
<b>Textbook:</b>	Pre-Calculus (OpenStax) by Jay Abramson Free Download: <a href="https://openstax.org/details/books/precalculus">https://openstax.org/details/books/precalculus</a>
<b>Homework:</b>	<a href="https://www.myopenmath.com">MyOpenMath.com</a>
<b>Equipment:</b>	<b>Graphing Calculator (TI 83, TI 84,...)</b>  TI Emulator Apps <ul style="list-style-type: none"> <li>• For iPhone: Graphing Calculator X84 (free with basic features or \$4.99 for pro features)</li> <li>• For Android: Graphing Calculator plus 84 83 (free with basic features or \$2.99 for pro features)</li> </ul>

### 1. Prerequisite:

MATH 31 or MATH 31B (with a grade of C or better); or a satisfactory score on college placement.

### 2. Course Objective:

- A. Evaluate the trigonometric function of an angle given in degree and radian measure
- B. Identify special triangles and their related angle and side measures
- C. Prove trigonometric identities
- D. Graph the six basic trigonometric functions and apply changes in period, phase and amplitude to generate new graphs
- E. Manipulate and simplify trigonometric expressions
- F. Recognize the relationship between trigonometric functions and their inverses graphically and algebraically
- G. Solve trigonometric equations, triangles, and applications
- H. Define the polar coordinate system and introduce polar graphs
- I. Examine complex numbers in the complex plane
- J. Solve arc length and sector area problems
- K. Examine the logic of conditional and bi-conditional statements as they appear in mathematical statements

- L. Perform operations with 2-dimensional vectors
- M. Apply trigonometric functions to model real world applications

### 3. Student Learning Outcomes

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

### 4. Academic Integrity:

All tests are open notes, but your work must reflect what you know based on your own knowledge and thought. Referencing or copying another student's solutions, or searching answer online during tests are considered cheating. Violation of this policy will result in the student receiving ZERO credit for the entire assignment or test. Further action may be taken depending on the circumstance.

### 5. Drop Policy:

Attendance is integral to your success in this course. I expect you to attend all class meetings. **It is always YOUR RESPONSIBILITY to drop** the class if you feel like you can't continue for any reason.

### 6. Tutoring

The Math, Science, and Technology Resource Center (**S43**) provides free on campus and online drop-in services. For hours and more information, go to [www.deanza.edu/studentuccess/mstrc](http://www.deanza.edu/studentuccess/mstrc)

### 7. Support Services

Students with disabilities needing reasonable accommodations should inform me in the beginning of the quarter. For more information, please visit the DSS office [www.deanza.edu/dsps/dss](http://www.deanza.edu/dsps/dss).

### 8. Important Dates:

**Saturday, April 22:** last day to add

**Sunday, April 23 :** last day to drop with no record online.

**Friday, June 2:** last day to drop with a "W".

## 9. Grade:

It is your responsibilities to check Canvas at least once a week to monitor your grades for the class.

21 InClass (drop 3)	25%	<b>A:</b> 90-100% <b>B:</b> 80-89% <b>C:</b> 70-79% <b>D:</b> 60-69% <b>F:</b> 0-59%
7 Homework (drop 1)	10%	
4 Quizzes	5%	
3 Exams	45%	
<u>Final Exam</u>	<u>15%</u>	
Total	100%	

### InClass:

Each lesson has an InClass Assignment. During Zoom meeting I will ask students to do some as in class practice. If you attend Zoom meeting, you are only required to complete SOME problems, but on the day of your absence, you need to watch the lesson recording and complete ALL problems from that InClass assignment. THREE lowest scored assignments will be dropped.

### Homework:

Homework assignments are assigned from **textbook**, but you need to submit your answers to MyOpenMath. Even I don't correct your work, you are still encouraged to work out the problem on a piece of paper.

### Late Passes for InClass or Homework

Each student are given **8 late passes (96 hours each)** this quarter. After an assignment (inclass or homework) is due, you should see a "late pass" button in the description of the assignment. After using all your late passes, you can complete an assignment in "Practice mode", and there is a 15% penalty when I record your grade later. More details are explained on a separate file.

### Quizzes

Quizzes will be given on specific dates as indicated on the class pacing calendar. Students will complete problems in pairs or groups. Only one submission per group is required. If you are absent on the day of the quiz, please see me during office hour to make it up.

### Exams:

Three exams will be given with opportunities of test corrections. You **CAN'T** drop any tests. The tests are timed so make sure you have a 2-hour time slot to complete each in one sitting. The week after each exam, you will be given a chance to do **Test correction** to earn up to **2%** of course grade as extra credit. That's a total of **6% extra credit** for 3 tests. More details are explained on a separate file.

### Final Exam:

Missing the final exam will result in a ZERO for the final exam grade in your gradebook.

## 10. Class Calendar

Week	Month	Tuesday	Thursday	Suggested Algebra Review
1	April	11 5.1 Angles	13 5.4 right triangle 5.2 unit circle	Assignment 1A -- 1D
2	April	18 <b>Quiz 1</b> 5.2 unit circle	20 5.3 other trig	Assignment 1E -- 2C
3	April	25 6.1 graphs of sine and cosine	27 6.2 graphs of other trig functions	Assignment 2D, 4A – 4B
4	May	2 6.3 inverse trig	4 <b>Quiz 2</b> 6.3 inverse trig 7.5 solve trig equations	Assignment 4C, 6B, 6C
5	May	9 7.1/7.2 Trig Identities	11 <b>Test 1</b> (5.1 – 6.2)	
6	May	16 7.3/7.4 more trig identities	18 7.5 Solve trig equations	Assignment 5A, 5B
7	May	23 <b>Quiz 3</b> 8.1 Law of sine	25 8.2 Law of cosine	Assignment 5C- 5E
8	May	30 8.3 Polar	1 <b>Test 2</b> (6.3 – 7.6)	Assignment 3B
9	June	6 8.4 Polar	8 8.8 Vector	Assignment 3A, 3C
10	June	13 <b>Quiz 4</b> 8.8 Vector	15 8.5 Complex	Assignment 6A
11	June	20 8.5 Complex	22 <b>Test 3</b> (8.1 – 8.8)	
12	June	27 <b>Final Exam</b> 9:15 – 11:15 AM		



Spring 2023 MATH 32 –Q01 TTh 9:30 – 11:45 online

**Student Learning Outcome(s):**

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

**Office Hours:**

M	11:45 AM	12:30 PM	Zoom
W,F	11:30 AM	12:30 PM	Zoom