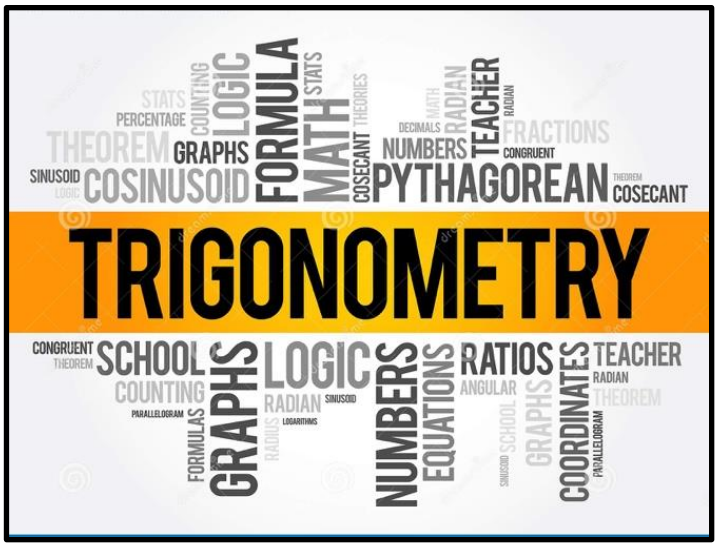
Math 32: Precalculus II Syllabus

Winter 2022



Course Information

Instructor: Mr. Andrew Lazar (he/him/his)
Answers To: Andrew, Mr. Lazar, Professor Lazar
Lecture: MTWThF 10:30 AM – 11:20 AM
Office: S 33-N
Phone Number: TBA
E-Mail: lazarandrew@fhda.edu
Student Hours: MW 4:00 PM – 5:00 PM, TTh 9:00 AM – 10:00 AM (or by appointment)

Course Statement

Welcome to Math 32! Many of you have probably taken some sort of precalculus class before this, however this is a continuation of material from Math 31. Precalculus in a nutshell is about the study of elementary functions, both algebraic and trigonometric, in preparation for calculus. In this course we will primarily focus on Trigonometry. These trigonometric functions are foundational for many parts of calculus and modelling in the real world. Some applications that utilize trigonometry include modelling of sound, light, bridges, oceanography, mapping, and many more. This course is the second course in our Precalculus sequence. We will learn about trigonometric functions, their graphs, identities, and applications. I look forward to guiding you through this course and I am happy to help you along the way. Here are some tips for success in this class:

- Be on time to class and always feel free to ask questions.
- Attend student hours regularly and/or utilize free tutoring services.
- Keep up with material, many of my previous students suggest the best thing to do is “don’t procrastinate”
- When sending emails to me, please identify yourself and the course you are enrolled in.
- It may be helpful to form a study group with fellow students in the course.

Good luck! Keep communicating with me. I want you to succeed!!!

Text

Precalc with Limits, 5th Edition by Larson

No textbook purchase is required for this course. MPS will provide an access code for WebAssign which contains access to the e-book version of our text.

WebAssign Course ID: deanza **1277 0968**

Course Materials:

- A scientific calculator is required for this course. You may use Desmos if you do not have a scientific calculator.
- A computer (6 years old or less is recommended).
- Binder or Notebook for notes.

Grading:

The following list of assignments will make up your grade in this course.

Assignment	**Weight**
Homework	30%
Quizzes	10%
Exams (4)	40%
Final Exam	20%
Total	**100%**

Grade Scale:

This course will be graded on a +/– scale.

A+: 97 – 100%, A: 93 – 96.9%, A-: 90 – 92.9%

B+: 87 – 89.9%, B: 83 – 86.9%, B-: 80 – 82.9%

C+: 77 – 79.9%, C: 73 – 76.9%, C-: 70 – 72.9%

D+: 67 – 69.9%, D: 63 – 66.9%, D-: 60 – 62.9%

F: < 59.9%

Course Assignments:

- **Homework Assignments**: Homework will be assigned weekly and completed using WebAssign. You can access WebAssign on our course's Canvas page. Homework is so important for this class as it is your opportunity to practice and perfect the skills taught in this class. I happily welcome questions in student hours and over e-mail. You will have about one week to complete homework assignments and will typically be due about twice a week.

- **Quizzes**: Quizzes will be assigned on a semi-weekly basis for this class. Some quizzes may be online through WebAssign and some may be handwritten. These quizzes are an opportunity to assess your learning prior to an exam. You will have the weekend to complete the quiz, Friday through Sunday at 11:59 PM.
- **Midterm Exams**: Exams are my opportunity to assess the learning that has happened in this course. Exams will be given in two portions (1) a WebAssign portion and (2) a handwritten portion that you will submit via Canvas. Once you start the online portion, you will have 2 hours to complete the exam. The assignment will be open on WebAssign for 24 hours, once you start the exam you must complete it. Do note that even though exams are on WebAssign, you will most likely need pen and paper while working on the midterm. There will be four midterm exams. On each exam you will be allowed a half-sheet, 8.5'' x 5.5'' (front and back) of notes. On exams you may use your calculator.
- **Final Exam**: There will be a cumulative final exam given on **Tuesday, March 22, 2022, from 1:45 PM – 3:45 PM.** You must take the final exam to pass this course. You will be allowed 1 page (8.5''x11'') front and back of notes and your calculator.

Exam Dates:

- Exam 1: January 21
- Exam 2: February 11
- Exam 3: February 25
- Exam 4: March 11
- Final Exam:

Canvas and Contact Information

The course Canvas page will be where I post documents related to the course including homework, syllabus, schedule, labs, etc. It will also be where I post course announcements. I can be contacted through the Canvas inbox and through e-mail. You should be visiting the Canvas page frequently throughout the week.

The best way to contact me outside of class is by email at lazarandrew@fhda.edu. During the week, I typically respond to emails within 24 hours. On the weekend, I will respond within 24 – 48 hours.

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 coordinates; further exploration of the complex plane; introduction to the algebra of vectors.

Attendance:

Regular attendance is strongly encouraged to achieve successful outcomes in this course. I will take attendance via a sign-in sheet at the beginning of class. On the event you should miss class I encourage you to review the posted lecture notes on Canvas and if needed set up an appointment with me to discuss any questions. If you are sick, please do not come to class. I want to make sure the health and well-being of all students is prioritized in this class. If you need to miss a day because you are sick, we can always catch you up. It is the student's responsibility to make sure they catch up in the event of an absence. I am happy to assist in helping in this process.

Civility and Non-Discrimination

I am excited to have students in my class and am always willing to teach and guide them. Students are expected to maintain respectful behavior toward fellow students and the instructor. A benefit of being a part of this college is being surrounded by individuals of all perspectives, genders, ethnicities, faiths, cultures, and backgrounds who are pursuing their educational goals. All of you are making personal sacrifices to be here and I want those sacrifices to be respected and worth it. I request that we all work together to maintain a class environment that is civil, respectful, and free of discrimination.

Academic Integrity

Here at De Anza College, your work is valued. Academic integrity standards of the college will be held in this classroom. You are responsible for knowing and following the college's academic honesty policy, available here. Furthermore, cheating on an exam or quiz will result in a "0" score on that exam or quiz. If it is on an exam, your final cannot be used to replace the score.

Dropping The Class

The last day to Add a class is **January 15, 2022**. The last day to Drop a class without a W is**, January 17, 2022**. The last day to drop the class with a W is **February 25, 2022.** It is the students' responsibility to add/drop classes by the deadline.

The instructor reserves the right to drop students who…

- Have missed the first day of class.
- Have missed at least 2 days of class within the first two weeks of the quarter.

Special Accommodations

I want to maintain a classroom environment where all students are supported, no matter their needs. If you require any special accommodations for a disability, please let me know as soon as possible so we can take the appropriate measures to help you succeed. You should also contact Disability Support Services to make your request.

Additional Services and Resources:

- **Tutoring:** The university offers free tutoring through the following programs.
  - MPS Tutoring Services
  - Student Success Center (SSC) Tutoring Services
- **MPS Counseling**
- **Health and Mental Health Services:** The college offers many health services and provides free mental health services to all students. If you require these services, the department is available for confidential help.
- **Library Resources**
- **Student Resources**

Final Notes

As your instructor, I want you to succeed. If you feel you are falling behind in the class or feel you are struggling, I encourage you to talk to me as soon as possible. We can then work together to set up a plan so that you can succeed. Remember, I am on your side.

Regarding late work, I understand the need to turn in late work can happen for a variety of reasons. The best approach for a situation like this is to communicate with me so I can support you. Homework and labs are due once per week. The best approach to completing these is to keep pace on the assignments. This will help digest material with deeper understanding.

With the understanding that the best approach is to keep up with work, I understand life happens and submitting an assignment by the due date is not possible. Please do not be worried about this, the following safeguards are here to help in cases like this:

- 2 lowest homework assignments will be dropped
- Your lowest exam score, will be replaced by your final exam score (if your final exam score is greater)

Important Dates

- January 15 (Last day to Add a class)
- January 17 (Last day to Drop a class without a “W”)
- January 17 (Martin Luther King Jr. Holiday – no classes)

- January 28 (Last day to request pass/no pass)
- February 18 – 21 (President's Holiday – no classes)
- February 25 (Last day to drop classes with a W)
- March 1 (Last day to file for fall degree or certificate)
- March 21 – 25 (Final Exams)

This syllabus is subject to change at the instructor's discretion. All changes will be announced in class and on Canvas. It is the student's responsibility to note announced changes to the syllabus.

Schedule

Week	Sections
1 1/3 – 1/7	Section 4.1 Section 4.2
2 1/10 – 1/14	Section 4.3 Section 4.4
3 1/17 – 1/21	Section 4.5 **Exam 1 (Sections 4.1 – 4.4)**
4 1/24 – 1/28	Section 4.6 Section 4.7
5 1/31 – 2/4	Section 4.8 Section 5.1
6 2/7 – 2/11	Section 5.2 Section 5.3 **(Exam 2 Sections 4.5 – 4.8)**
7 2/14 – 2/18	Section 5.4 Section 5.5
8 2/21 – 2/25	Section 6.1 Section 6.2 **(Exam 3 Sections 5.1 – 5.5)**
9 2/28 – 3/4	Section 6.3 Section 6.4
10 3/7 – 3/11	Section 6.5 Section 6.6 **(Exam 4 Sections 6.1 – 6.4)**
11 3/14 – 3/18	Section 10.7 Section 10.8
12 3/21 – 3/25	**Final Exam: Tuesday March 22 1:45 – 3:45 PM** (Cumulative)

Student Learning Outcome(s):

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