Math 32: Precalculus II
Spring 2026, CRN 47296, Section 21
Monday & Wednesday 4pm to 6:15pm
Multimedia Learning Center (MLC), Room 103

Instructor Information

Instructor:	Andrew Jianyu Yu
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Office Location:	E37
Office Hours:	Monday and Wednesday 6:15pm to 7pm *in MLC103*

Course Description

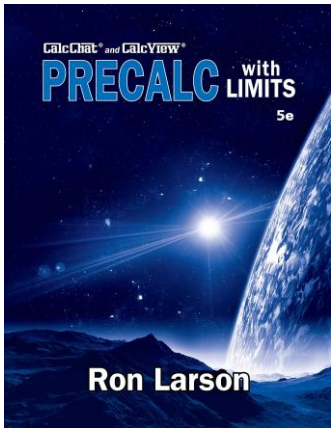
This course prepares students for calculus. Topics include extending the elementary functions of first-quarter precalculus to include the theory of periodic functions; composition of trigonometric functions with other elementary functions; polar co-ordinates; further exploration of the complex plane; introduction to the algebra of vectors.

Student Learning Outcomes (SLOs)

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

Prerequisite

MATH 31 or MATH 31H with a grade of C or better; or a satisfactory score on college placement
Advisory: ESL 272 and ESL 273, or ESL 472 and ESL 473, or eligibility for ENGL C1000 or ENGL C1000H or ESL 5



Required Textbook

Precalc with Limits 5th Edition by Ron Larson;
Publisher: Cengage Learning (January 1, 2021)
Language: English; Hardcover: 1120 pages
ISBN-10: 0357457854; ISBN-13: 978-0357457856
Item Weight: 5.55 pounds
Dimensions: 8.7 x 1.7 x 10.9 inches
Important Notes: It is not necessary to purchase a hard copy of this book.

Topics To Be Covered in This Course:

Chapter 4: Trigonometry

4.1: Radian and Degree Measure
4.2: Trigonometric Functions: The Unit Circle
4.3: Right Triangle Trigonometry
4.4: Trigonometric Functions of Any Angle
4.5: Graphs of Sine and Cosine Functions
4.6: Graphs of Other Trigonometric Functions
4.7: Inverse Trigonometric Functions
4.8: Applications and Models

Chapter 5: Analytic Trigonometry

5.1: Using Fundamental Identities
5.2: Verifying Trigonometric Identities
5.3: Solving Trigonometric Equations
5.4: Sum and Difference Formulas
5.5: Multiple-Angle and Product-to-Sum Formulas

Chapter 6: Additional Topics in Trigonometry

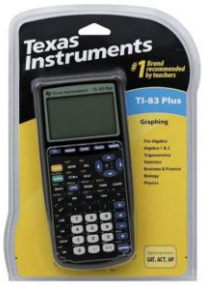
6.1: Law of Sines
6.2: Law of Cosines
6.3: Vectors in the Plane
6.4: Vectors and Dot Products
6.5: The Complex Plane
6.6: Trigonometric Form of a Complex Number

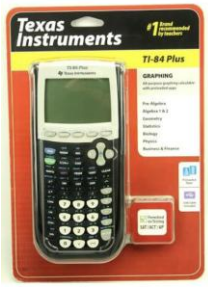
Chapter 10: Topics in Analytic Geometry

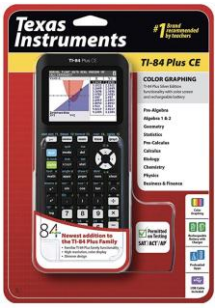
10.6: Parametric Equations
10.7: Polar Coordinates
10.8: Graphs of Polar Equations

Graphing Calculator

TI-83 Plus TI-84 Plus TI-84 Plus CE TI-Nspire







Graphing calculator is strongly **recommended** for the course. TI-84 Plus or Plus CE is highly recommended. This calculator is widely used in math, science, and engineering courses. You are required to bring a physical calculator to the exam, and sharing calculator is considered as cheating incident. Using the calculator apps on your phone is strictly prohibited on the exam. It is the student's responsibility to ensure that the calculator does not have internet connectivity or unauthorized communication capabilities. The instructor reserves the right to inspect students' calculators during an exam.

Technical Requirements

Your Email: Please check your email regularly. If possible, connect your email with an app in your smartphone. You are encouraged to reach out with questions related to course content, assignments, or academic concerns. Professional communication is expected in all email correspondence. **Please follow the subject line format below.**

"Math 32: _____"

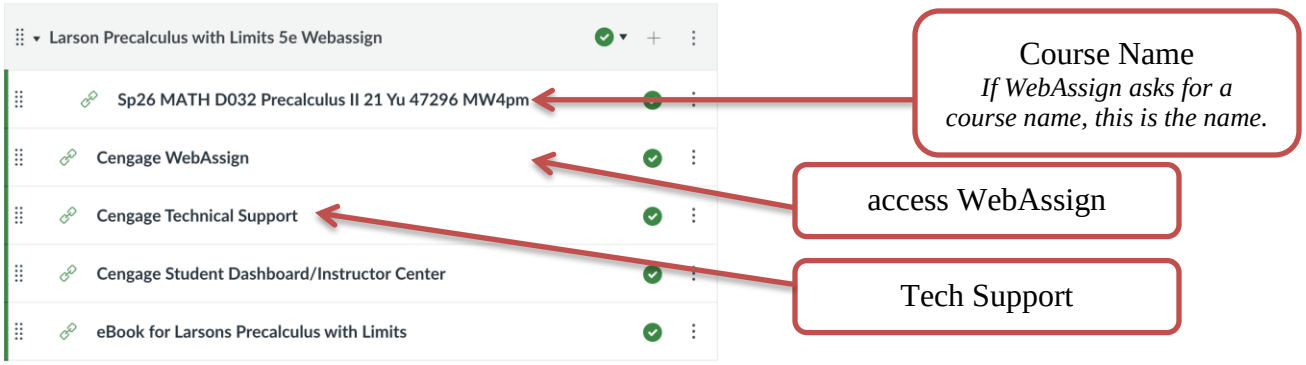
You write your inquiry after the colon. For example
Math 32: Request Extension for Homework 3

WebAssign: All online homework, online quizzes, and online exams are completed on WebAssign. A paid account is required after the free trial period. If an assignment requires written work, you must scan and upload your work to Canvas for credit.

Canvas: Canvas is used for lecture materials, announcements, and course communication. Weekly modules contain notes and assignments. Grades from WebAssign are automatically synchronized to the Canvas gradebook.
At least one homework assignment and one quiz will be assigned each week. Students are responsible for checking both Canvas and WebAssign regularly for updates and deadlines. Failure to stay informed will not be accepted as a valid reason for missed work.

WebAssign Class Key and WebAssign-Canvas Integration

Use the link in the first module to register your account. Please take the advantage of the free trial and do not pay anything yet. **All purchases are non-refundable.** **There is no class key** for this course because WebAssign has been integrated to Canvas. Click "Cengage Technical Support" to contact a customer representative if you experience any technical or payment issues.



Canvas

There are a few places that you have to visit frequently on Canvas.

- **Modules**
  Each weekly module shows the notes and homework of that week.
- **Grades**
  Scores will be transferred from WebAssign to Canvas. Instructor will update the grade book weekly.
- **Files**
  Notes, books, and syllabus
- **Discussion**
  If we want to have a discussion regarding any topics, we will do this in the Discussion tab.
- **Announcement**
  Emergencies, date change, change of plans, and etc

Mandatory Attendance

Students who miss 4 or more meetings may be subject to administrative drop in accordance with college policy.

Scanning Your Paperwork for Online Exams and Online Quizzes

Other than homework, you have to show your work for all online exams and for some online quizzes. Use one of the options below to upload your work to Canvas for credit. For either option below, number the problem and the page. Clearly label each problem and organize your work so that it can be followed logically and efficiently. If an application problem has long problem statements, or a problem provides a very complicated graph (e.g. three-dimensional image), it is not necessary to copy the problem statements or the graph.

1. If you write all your work using a note-taking apps, save it as a PDF file and upload that file to Canvas.
2. If you have a scanner, scan all the pages, save them as **one PDF document**, and upload the file to Canvas.
3. If you do not have a scanner, download the free app called **Genius Scan – PDF Scanner App** ¸(highly rated on app stores). Take a picture of each page, use the app to merge all the pictures into **one PDF documents,** and upload the file to Canvas.

NOTE: Points will be deducted if you upload multiple images.

The due date of all the assignment follows the U.S. Pacific Standard Time (PST).

Homework & Discussion, 10% of the Course Grade

Online Homework	Written Homework
Must be completed on WebAssign. The system will grade your answer and give you a grade. You are recommended to show all your work but you do not need to submit a proof of your work.	Must be written on paper Instructors will provide the problems. You must present all your work on paper and submit your work to Canvas for credit.

For in-class discussion: students will be solving problems in groups, The instructor will actively engage with each group by providing guidance, asking questions, and supporting students' reasoning. Points will be awarded based on the answers and participation. Collaborative learning is an important part of this course, and students are expected to participate actively.
For other discussion: topics will be posted on Canvas's "Discussion", follow the directions and write your response. These free-response discussions have no right or wrong answer. To receive full credits, you must reply to one other student's discussion.

Quiz & Pop Quizzes, 20% of the Course Grade

The dates and topics of each quiz will be announced in advance.

Online Quiz	Written Quiz
Access the quiz from Canvas or WebAssign. Individual assignment, do your own work. You need to show all your work and upload the proof of your work to Canvas. "Quiz1P", "Quiz2P", The letter *p* represents paperwork.	Either a take-home written quiz or in-person written quiz. The "open-notes" options will be announced in advanced. You will get several problems typed on a sheet of paper and you must present all your work on paper.
Pop Quiz To encourage consistent engagement, unannounced pop quizzes may be given. Each quiz will focus on that day's topics and must be completed in a 10-minute window. You may use your notes and a calculator. Please note that these quizzes are time-sensitive, and make-up options are not available.	

Students are expected to demonstrate active participation at the beginning of the term. Failure to complete initial coursework or demonstrate activity on Canvas may result in being dropped in accordance with college policy.

The following assignments require submission of written work ("P" indicates proof required):

Required to submit proofs	Not required to submit proofs
HW1 HW1**P** Quiz2 Quiz2**P** Midterm1 Midterm 1**P** FinalExam FinalExam**P** Assignments labeled with "**P**" require submission of written work. These assignments assess both the final answer and the problem-solving process. *Tips: Showing complete and organized work is essential for both earning credit and developing a deeper understanding of the material.*	HW1 Quiz2 Assignments without "**P**" do not require submission of written work. *This is a math course. Many problems require you to perform computations in multiple steps. Showing work is an essential step to enhance your learning. Likewise, if I skipped many steps in my lecture, this creates confusions and you will not learn from my lecture notes.*

Midterm, 40% of the Course Grade (Two Midterms)

Midterm 1 is scheduled for Week 4 (Wednesday, April 29).

Midterm 2 is scheduled for Week 8 (Wednesday, May 27).

Each exam will be completed during the scheduled class time.

There is one exam at the last Wednesday of every month.

Final Exam, 30% of the Course Grade

Week #12: Wednesday June 24th from 4:00 pm to 6:00 pm.

Every student is required to take a *comprehensive final exam that reflects every element in the student learning outcomes*. For each exam, your instructor will use **either** an in-person online exam **or** an in-person written exam.

Students are expected to take exams at the scheduled time. Please plan accordingly. Exams cannot be rescheduled except in documented and approved circumstances in accordance with college policy.

In-person Online Exam Policies	In-person Written Exam Policies
(1) Bring one device only (either a laptop or a tablet) (2) Bring paper to show your work (3) I will either collect your work or ask you to submit your work to Canvas (4) Lockdown browser will be enforced. (5) Each multiple-choice sub-problem has 1 attempt. (6) Each free-response sub-problem has 3 attempts. **Your score on WebAssign is final. Please proceed with caution, as no additional attempts will be granted for any reason. I will not review your work to award partial credit.**	Exam will be typed and printed You will get a physical copy of the exam. Workspace will be provided in the exam. You write your work on the exam paper and turn in your work. Exams must be completed within the assigned time frame. Once submitted, no revisions or resubmissions will be accepted. Once the exam has been graded and returned, students are not allowed to submit corrections or revisions to earn additional points.
You are allowed to carry the following items to the exams: (1) For midterms, you are allowed to bring 3 sheets (6 pages total, front of back) of notes. The size of the paper is 8.5 inches by 11 inches. The notes can be typed or handwritten. (2) For the final exam, you are allowed to bring 6 sheets of notes. The other requirements are mentioned in (1).	
Sharing calculator, tablet, or laptop is strictly prohibited and considered as cheating. All the exams are individual work. Students who cheat, plagiarize or help someone else cheat will be given a zero on the exam, and this zero is irreplaceable, meaning that it will count toward your course grade.	

Late Submission Policies

- Midterm cannot be rescheduled or extended.
- Final exam cannot be rescheduled or extended.
- Every student can extend the due date of one homework, either written homework or online homework.
- Every student can extend the due date of one online quiz. In-person written quizzes are time-sensitive, and they cannot be rescheduled.
- **To request an extension, submit an extension on WebAssign and wait for the instructor's approval. Please make the extension within 3 days after the due date. For example, if homework 1 is due on October 1st at 11:59pm, the deadline to request an extension is October 4th at 11:59pm.**
- Late submissions are generally not accepted. Extensions are limited and must be requested within the stated time frame. Failure to follow the extension request process will result in a zero for the assignment.
- **The last homework and the last quiz cannot be extended or rescheduled.**

Check Points:

- Homework & Discussion 10%, Quiz & Pop Quiz 20%, Midterm 40%, Final 30%; Late or missing work will receive zero credit unless prior approval or official accommodations are in place.
- For in-person online exams, you must show all your work on paper and submit your work to Canvas. The score does not count toward your course grade if your work is missing.
- Students are expected to regularly monitor Canvas and WebAssign for announcements, assignments, and deadlines.
- Comparing to homework, you will have at most 3 attempts on in-person online exams. Students are encouraged to solve problems carefully and verify their work before submission to develop accuracy and mathematical discipline. Additional attempts will not be granted for any reasons.

Tutoring at the Student Success Center (SSC)

The Student Success Center (SSC) provides free tutoring services to support student learning. Students are strongly encouraged to take advantage of these resources to strengthen their understanding and build confidence in mathematics.

Please visit the following website for details and schedules.

https://www.deanza.edu/studentsuccess/

Grading Rubrics

Your course grade will be assigned in the following standard:

A: 100% to 93%	A-: 92% to 90%	
B+: 89% to 86%	B: 85% to 83%	B-: 82% to 80%
C+: 79% to 75%	C: 74% to 70%	
D: 69% to 60%	F: below 60%	

Borderline grades (points of 89.0-89.9, 79.0-79.9, or 69.0-69.9) will be considered for the next letter grade based on at least 70% overall average on the final exam. Transferring to UCs, CSUs, top-ranking universities, or scholarships are not a reason to ask for a higher grade.

All grade cutoffs are applied consistently and are not subject to negotiation. Transferring to UCs, CSUs, top-ranking universities, or scholarships are not a reason to ask for a higher grade.

Extra Credit Assignment

There are no extra credit assignments in this course to improve your grade. Please do not ask for any.

Academic Integrity

Academic integrity is expected of all students.

Any form of cheating on quizzes, exams, or assignments will result in a zero on the assessment and may be reported in accordance with college policy.

Cheating includes, but is not limited to:

- Using AI tools, online resources, or unauthorized assistance
- Communicating with others during an assessment
- Using phones, smart devices, or hidden technology
- Sharing or posting course materials on external platforms (e.g., Chegg, Discord, group chats)

Students are responsible for ensuring their work complies with academic integrity policies, regardless of the method or technology used. Violations will be treated seriously and may result in further academic or disciplinary consequences.

Classroom Environment & Expectations

Students are expected to be present, attentive, and engaged during class.

• Electronic devices may be used only for course-related purposes. Students who choose to use devices for unrelated activities may be asked to leave, as this course requires active participation.

• Side conversations are not permitted during instruction. If conversations continue, the instructor may pause the class until the discussion has ended.

• Students are expected to follow lectures, discussions, and group work actively.

Disruptive behavior that interferes with the learning environment will not be permitted. The instructor may ask a student to leave for the remainder of the class if necessary. Repeated disruptions may result in further action in accordance with college policy.

Academic Calendar:

April 6: Spring classes begin

April 19: Last day to add 12-week classes

Last day to drop a class without a W

May 23 to 25: Memorial Day Weekend – no classes; offices closed

May 25th is a Monday, we do not have a meeting on this date.

May 29 (Friday): Last day to drop classes with a W

We have an exam on May 27th.

To withdraw from this class, go to the student portal where you registered for this class, change the status from "registered" with "withdraw". After you are done, please double-check your status.

Important Note: It is student's responsibility to drop or withdraw the class if that student decides not to finish the class. After the last day to withdraw is passed, student cannot withdraw from the class.

June 19: Juneteenth Holiday – no classes, offices closed

June 19th is a Friday. This holiday does not affect our class meetings.

June 22 to 26 (Week #12): Final exams (our final exam is on June 24th)

https://www.deanza.edu/calendar/final-exams.html

For the final exam schedule, Google "De Anza College Final Exam Schedule", input the date and time of this class to see the date and time

An academic quarter has 11 weeks of instruction and 1 week of final exam.

Grades must be submitted by Wednesday, July 1st, by midnight

The instructor may make reasonable adjustments to the syllabus as needed to support student learning. Any changes will be communicated in a timely manner.

Student Learning Outcome(s):

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

Office Hours:

M,W	6:15 PM - 7:00 PM	MLC 103