




# Trigonometry

MAC 1114, Online




## Instructor Info

-  Lauren Wickman
-  wickmanlauren@ufl.edu
-  Matthew Dallas
-  mdallas1@ufl.edu





## Course Info

-  Prereq: None
-  May be taken concurrently with MAC 1140 (Pre-Calc)
-  MAC1114 + MAC1140  $\cong$  MAC1147

## Lecture Info

-  Live Lecture: Tuesday 9:35 - 11:30 (attendance optional, video posted afterward)
-  Problem Session with Lauren: Thursday 9:35 - 11:30
-  Problem Session with Matt: TBD

## Assignment Types

-  Weekly Lecture Notes
-  Weekly WebAssign HW
-  Weekly Quizzes
-  3 Midterm Exams and 1 Final Exam

## Overview

This course is the companion to MAC1140 Precalculus Algebra and serves as an introduction to Trigonometry. In this course, we will cover Chapters 4, 5, and the beginning of Chapter 6 in Larson's textbook. Topics will include a basic introduction to trigonometric functions, graphing trigonometric functions, inverse trigonometric function, and analytic trigonometry.

## Material

### Required Texts

Larson, Ron. *Precalculus*. Cengage Learning. 10th edition (2016). ISBN: 978-1-337-27107-3

### WebAssign

Webassign - Access through Canvas and use the University-wide Opt-In to pay

### Lecture Notes

Download or print the lecture notes each week. Fill them out IN YOUR OWN HAND-WRITING and submit for credit.

## Grading Scheme

26%	Webassign Homework
13%	Weekly Quizzes (Honorlock, Scan & Submit)
30%	Midterm Exams, 10% each (Honorlock, Multiple Choice)
12%	Cummulative Final (Scan & Submit)
13%	Lecture Notes
6%	Oral Presentations

Grades will follow the standard scale: A = 92.5-100; A- = 89.5-92.4; B+ = 87.5-89.4; B = 82.5-87.4; B- = 79.5-82.4; C+ = 77.5-79.4; C = 72.5-77.4; C- = 69.5-72.4; D+ = 67.5-69.4; D = 62.5-67.4; D- = 59.5 - 62.4; F <59.5.

## Webassign Homework

There is a webassign homework each week, one assignment corresponding to each lecture. The assignment is designed to take between 1-2 hours to complete altogether. Please reach out for help when needed or request extensions. Attend problem sessions to work through the problems alongside the instructors and other students.

## Quizzes

Each lecture will have a corresponding free-response quiz. The quiz is designed to take 15-20 minutes, but students will be given an hour to complete it. The quiz will be completed using HonorLock and there will be two links necessary to complete the quiz. Open the quiz proctoring link (which will launch Honorlock and provide a link to a pdf of the quiz questions). Have all materials ready: (calculator, blank paper, pencil, and phone with CamScanner app). When finished working, close the proctoring page, then scan all work and submit it to the canvas "Submit Quiz" assignment tab within five minutes.

# FAQs

? How do we sign up/pay for Web Assign?

! First follow the directions at this LINK for UF All Access: . Then, click on the WebAssign link on our canvas page and enter the access code when prompted.

? What if I have class during the live (zoom) lectures?

! The videos will be posted immediately after the lecture. Find them on the canvas page, watch them at your convenience and fill in the guided notes.

? How do the weekly quizzes work?

! Open the link for the quiz proctoring (which will launch Honorlock and provide a link to a pdf of the quiz questions). Have all materials ready: (calculator, blank paper, pencil, and phone with camscanner app). When you are finished working, close the proctoring page, then you will have 5 minutes to scan your work and submit it to the canvas "Submit Quiz" assignment.

? How often do I have to submit an oral presentation?

! Once per module (three times altogether per semester). The question you explain should come from that module.

## Exams

There will be 3 Honorlock midterm exams throughout the semester (each exam will be on canvas and will be multiple-choice), one at the end of each unit (see course schedule for dates). The final exam will be a cumulative take-home (i.e. no-Honorlock, you may work with a partner and use online materials to assist you). Each exam is worth 10%

## Live Lectures

Live lectures will occur once per week and are completely optional. In them, the instructor will lead the class in filling out the guided notes for the lecture. Students must fill in the notes **IN THEIR OWN HANDWRITING** and then submit the completed notes on canvas when finished. Students may either print the notes to fill them out, or download them on a tablet and fill them out that way. Lecture videos will be posted immediately afterward on the canvas page for students who choose not to (or unable to) attend the live lecture.

## Lecture Notes

In order to ensure class participation, students will submit a copy of their filled-in notes from each lecture (written in **THEIR OWN HANDWRITING**). Students may either download the guided notes onto a tablet, or they may print them and fill them out that way. As long as the writing is done **IN THEIR OWN HANDWRITING** and then submitted on canvas afterward. For students who choose to print the notes, use an app such as CamScanner to take a picture of the notes and convert them to pdfs. Then upload them on canvas.

## Oral Presentations

In order to ensure class participation, students will explain how to solve a question from the homework orally either in a zoom problem session, or by submitting a recording to canvas. The explanation should take more than one minute but less than five minutes, so the problem you choose to explain should be somewhat involved. Students will do this **ONCE PER UNIT**. Submitting early is recommended, because if a mistake has been made and it's caught early, students will have time to submit a redo.

## Make-up Policy

The University attendance policy is as follows: <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>

An excused absence will allow you to make up quizzes and exams within one week. Use the following link to send verified documentation for an excused absence: <https://care.notifications/>

## Diversity and Inclusivity Statement

We consider this classroom to be a place where you will be treated with respect, and we welcome individuals of all ages, backgrounds, beliefs, ethnicities, genders, gender identities, gender expressions, national origins, religious affiliations, sexual orientations, ability - and other visible and non-visible differences. All members of this class are expected to contribute to a respectful, welcoming and inclusive environment for every other member of the class.

# FAQs

? How do we sign up/pay for Web Assign?

! First follow the directions at this LINK for UF All Access: . Then, click on the WebAssign link on our canvas page and enter the access code when prompted.

? What if I have class during the live (zoom) lectures?

! The videos will be posted immediately after the lecture. Find them on the canvas page, watch them at your convenience and fill in the guided notes.

? How do the weekly quizzes work?

! Open the link for the quiz proctoring (which will launch Honorlock and provide a link to a pdf of the quiz questions). Have all materials ready: (calculator, blank paper, pencil, and phone with camscanner app). When you are finished working, close the proctoring page, then you will have 5 minutes to scan your work and submit it to the canvas "Submit Quiz" assignment.

? How often do I have to submit an oral presentation?

! Once per module (three times altogether per semester). The question you explain should come from that module.

## Accommodations for Students with Disabilities

If you are a student with learning needs that require special accommodation:

1. Register with the Disability Resource Center (352-392-8565, [www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)) by providing appropriate documentation.
2. Email your instructor ([wickmanlauren@ufl.edu](mailto:wickmanlauren@ufl.edu)) your accommodation letter, along with any additional information.
3. Register for the exams through the DRC (if you get extended time) to ensure testing accommodations are met.

This should be done as early as possible in the semester. However, you can submit your accommodation letter to the instructor at any point in the semester.

## Academic Integrity

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code." On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (<https://catalog.ufl.edu/ugrad/1617/honor-code.aspx>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor of this class.

## Campus Resources

U Matter, We Care: If you or a friend is in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu) or 352 392- 1575 so that a team member can reach out to the student. Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Assault Recovery Services (SARS): Student Health Care Center, 392-1161. University Police Department: 392-1111 (or 9-1-1 for emergencies). <http://www.police.ufl.edu>

## Extra Help

Teaching Center Math Lab: Located at SE Broward Hall (and LIT 215 – online via Zoom this semester due to quarantine restrictions). Offers free, informal tutoring: <https://teachingcenter.ufl.edu/tutoring/> Private Tutors: A list of qualified private tutors for hire is available here: <https://math.ufl.edu/files/2021/05/tutorlistSummerAC202>

## Online Course Evaluations

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at [gatorevals.ua.ufl.edu/students/](http://gatorevals.ua.ufl.edu/students/). Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via [ufl.bluera.com/ufl/](http://ufl.bluera.com/ufl/). Summaries of course evaluation results are available to students at [gatorevals.ua.ufl.edu/p/results/](http://gatorevals.ua.ufl.edu/p/results/).

## Class Schedule

### MODULE 1: Basics of Trigonometry

Week 1	Section 4.1 - Radian and Degree Measures	Submit Completed Lecture Notes, Webassign HW 4.1, and Quiz 4.1 by 11:59 p.m. on Sunday, January 9
Week 2	Section 4.2 - Trigonometric Functions	Submit Completed Lecture Notes, Webassign HW 4.2, and Quiz 4.2 by 11:59 p.m. on Sunday, January 16
Week 3	Section 4.3 - Right Triangle Trigonometry	Submit Completed Lecture Notes, Webassign HW 4.3, and Quiz 4.3 by 11:59 p.m. on Sunday, January 23
Week 4	Section 4.4 - Trig Functions of Any Angle	Submit Completed Lecture Notes, Webassign HW 4.4, and Quiz 4.4 by 11:59 p.m. on Sunday, January 30
Week 5	Section 4.5 - Graphs of Sine & Cosine Functions	Submit Completed Lecture Notes, Webassign HW 4.5, and Quiz 4.5 by 11:59 p.m. on Sunday, February 6

### MODULE 2: Solving Trigonometric Equations

Week 6	Section 4.6 - Graphs of Other Trig Functions	Submit Completed Lecture Notes, Webassign HW 4.6, and Quiz 4.6 by 11:59 p.m. on Sunday, February 13
	Exam 1 (4.1-4.5)	Due by Sunday, February 13 at 11:59 p.m.
Week 7	Section 4.7 - Inverse Trig Functions	Submit Completed Lecture Notes, Webassign HW 4.7, and Quiz 4.7 by 11:59 p.m. on Sunday, February 20
Week 8	Section 5.1 & 5.2 - Trig Identities	Submit Completed Lecture Notes, Webassign HW 5.1/5.2, and Quiz 5.1/5.2 by 11:59 p.m. on Sunday, February 27
Week 9	Section 5.3 - Solving Trig Equations	Submit Completed Lecture Notes, Webassign HW 5.3, and Quiz 5.3 by 11:59 p.m. on Sunday, March 13
Week 10	Spring Break	No Classes (3/5/22 - 3/12/22)

### MODULE 3: Applying Trigonometric Identities

Week 11	Section 5.4 - Sum & Difference Formulas	Submit Completed Lecture Notes, Webassign HW 5.4, and Quiz 5.4 by 11:59 p.m. on Sunday, March 20
	Exam 2 (4.6 - 5.3)	Due by Sunday, March 20 at 11:59 p.m.
Week 12	Section 5.5 - Other Trig Formulas	Submit Completed Lecture Notes, Webassign HW 5.5, and Quiz 5.5 by 11:59 p.m. on Sunday, March 27
Week 13	Section 6.1 - Law of Sines	Submit Completed Lecture Notes, Webassign HW 6.1, and Quiz 6.1 by 11:59 p.m. on Sunday, April 3
Week 14	Section 6.2 - Law of Cosines	Submit Completed Lecture Notes, Webassign HW 6.2, and Quiz 6.2 by 11:59 p.m. on Sunday, April 10
Week 15	Exam 3 (5.4 - 6.2)	Due by Sunday, April 17 at 11:59 p.m.
Week 16	Cumulative Final & Due by Monday, April 25 at 11:59 p.m.	