

# MAC 1114 - Trigonometry

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**Office:** Little Hall 461

**Office Hours:** Tuesdays and Fridays 7th period at the Zoom link in Canvas

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## 1 Course Description and Objectives

This course is the sequel to MAC1140 Precalculus Algebra and serves as an introduction to Trigonometry. Topics include a basic introduction to trigonometric functions, graphing trigonometric functions, inverse trigonometric functions, and analytic trigonometry.

By the end of this course, you will be able to:

1. Define and evaluate trigonometric objects such as trigonometric functions, inverse trigonometric functions, and identities.
2. Use trigonometric objects to model applications.
3. Use trigonometric identities to simplify expressions and verify identities through logical proof.

## 2 Textbook

In this course, we will be following along with lecture notes provided in Canvas. There is no required textbook, but a useful reference can be found at <https://openstax.org/details/books/algebra-and-trigonometry> if you would like additional reading, but should not be considered required.

## 3 Minimum Technology Requirements

The University of Florida expects students entering an online program to acquire computer hardware and software appropriate to their degree program. Most computers are capable of meeting the following general requirements. A student's computer configuration should include:

- Webcam
- Microphone
- Broadband connection to the internet and related equipment (cable/DSL modem)

- Microsoft Office Suite installed (provided by the university)
- Individual colleges may have additional requirements or recommendations, which students should review before starting their program.

## 4 Course Schedule

The following should be considered tentative.

<b>Week 1</b>	7/3-7/7	Module 1: Angles and Circles Module 2: Trigonometric Functions
<b>Week 2</b>	7/10-7/14	Module 3: Right Triangles and Reference Angles Module 4: Graphs of Sine and Cosine Functions Exam 1
<b>Week 3</b>	7/17-7/21	Module 5: Graphs of Cosecant, Secant, Tangent and Cotangent Module 6: Inverse Trigonometric Functions
<b>Week 4</b>	7/24-7/28	Module 7: Inverse Trigonometric Functions: Applications and Models Module 8: Trigonometric Equations and Identities Exam 2
<b>Week 5</b>	7/31-8/4	Module 9: Solving Trigonometric Conditional Equations Module 10: Sum and Difference Formulas - Product to Sum Formulas
<b>Week 6</b>	8/7-8/11	Module 11: Double Angle, Power Reducing, and Half Angles Formulas Module 12: Law of Sines and Law of Cosines Exam 3

## 5 Grading

Grades will be based on the following composition:

- Xronos Homework: 20%
- Quizzes: 20%
- Exam 1: 20%
- Exam 2: 20%
- Exam 3: 20%

**Homework:** Homework will be in Xronos and accessed through Canvas. You should expect about one per week.

**Quizzes:** There is one quiz associated with each module and three exam reviews. Your top 12 scores will be counted.

**Exams:** Exams will be conducted through Canvas with Honorlock. The link to each exam will be in the last module of material it covers.

The grading scale will be:

A	90%
A-	87%
B+	84%
B	80%
B-	77%
C+	74%
C	70%
C-	67%
D+	64%
D	60%
D-	57%
E	Below 57%

## 6 Administrative Concerns

### 6.1 Incomplete Policy

A grade of I (incomplete) will be considered only if you meet the Math Department criteria which is found at <https://www.math.ufl.edu>. If you meet the criteria you must see the instructor before the beginning of finals week to be considered for an I. A grade of I only allows you to make up your incomplete work. You cannot redo any previously completed work.

### 6.2 Online Course Evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://gatorevals.aa.ufl.edu/>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open.

### 6.3 Advising and Help

- For issues with technical difficulties for Canvas, please contact the UF Help Desk at:
  - Website: <https://helpdesk.ufl.edu>
  - Phone: (352) 392-HELP (4357)
  - Walk-in: HUB 132

**Note:** Any requests for make-ups due to technical issues **MUST** be accompanied by the ticket number received from the Help Desk when the problem was reported to them. The ticket number will document the time and date of the problem. You **MUST** e-mail your instructor within 24 hours of the technical difficulty if you wish to request a make-up.

- For all course-related concerns, please talk to your Instructor! Office hours will be posted and are regular times when they are available to answer questions, discuss grades, advise students on future classes, or help students in any available way. You do **not** need an appointment to visit during office hours. If you need to meet outside of office hours, please reach out for an appointment.
  
- In addition, there are several other free resources available to you:
  - The Teaching Center Math Lab, located at SE Broward Hall, offers free informal tutoring. You may want to attend different hours to find the tutors with whom you feel most comfortable. Also the Little 215 Tutoring Center provides free tutoring for courses up to Calculus 1. Go to <https://www.teachingcenter.ufl.edu> to find their hours. You can also request free one-on-one tutoring.
  - A list of qualified tutors for hire is available at <https://www.math.ufl.edu>.
  - Other resources are available at <https://www.distance.ufl.edu/getting-help> for:
    - \* Counseling and Wellness resources
    - \* Disability resources
    - \* Resources for handling student concerns and complaints
    - \* Library Help Desk support
  
- Should you have any complaints with your experience in this course please visit <https://www.distance.ufl.edu/student-complaints> to submit a complaint.

## 6.4 Class Demeanor or Netiquette

All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats.

## 6.5 Honor Code

All students are required to abide by the Academic Honesty Guidelines which have been accepted by the University. The academic community of students and faculty at the University of Florida strives to develop, sustain and protect an environment of honesty, trust and respect. Students are expected to pursue knowledge with integrity.

Violations of the Academic Honesty Guidelines shall result in judicial action and a student being subject to the sanctions in paragraph XIV of the Student Code of Conduct. The conduct set forth hereinafter constitutes a violation of the Academic Honesty Guidelines (University of Florida Rule 6C1-4.017). You may find the Student Honor Code and read more about student rights and responsibilities concerning academic honesty at the link <https://www.dso.ufl.edu/sccr/>.

## 6.6 Students with Disabilities

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting: <https://disability.ufl.edu/students/get-started/>. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester. If a student does not supply the appropriate documentation in a timely fashion, the instructor may not be able to accommodate the student in a timely manner.

## 6.7 Online Privacy

ONLINE PRIVACY: Our class sessions may be audio visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the “chat” feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

## 6.8 Changes

I largely reserve the right to make changes as necessary (E.G. Cancel a quiz) for reasons of reasonable scheduling issues, pure whimsy, or petty tyranny. Any such changes will be announced both in-class and as an announcement on Canvas.