

MAC1114 TRIGONOMETRY
STUDENT GUIDE
Section 3018, TR 3rd, Little 217
SPRING 2012 (as of 1/2/12)

Contents: **Calendar**

Syllabus (contains book HW, grading scale, make-up policies, etc.)

Contact information:

Instructor: Sherry Tornwall, Little 374, 352-392-0281 x 233,
tornwall@ufl.edu, Please use Sakai mail tool.
Office Hours: M 3rd, 4th, T 4th, W 3rd, 4th, R 4th.

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The course homepage is on Sakai at <http://lss.at.ufl.edu>.

1.COURSE CONTENT: This course will cover the unit circle, trigonometric functions, right triangle trigonometry, graphs of trigonometric functions, inverse trigonometric functions, trigonometric identities, sum and difference formulas, multiple angles and product-to-sum formulas, and the laws of sines and cosines. There are no prerequisites for this course, other than a strong algebra background.

2.REQUIRED MATERIALS: Access to the textbook and to the online program WebAssign are required. The solutions manual is NOT required.

Text book –UF custom copy of *Precalculus with Limits*, 2nd edition, by Larson will be used for this course. The text is available at local bookstores. Copies of the book and solutions manual are also available for in-library use at the reserve desks of the Science Library in Marston Hall, the UF Norman Library and the UF Smathers Library West.

WebAssign can be purchased bundled with the book or separately at <http://webassign.net>

3.WEBASSIGN: Online homework and quizzes from WebAssign will count toward your grade. Students will need to purchase the access code for the online WebAssign work. **Your will not be able to register for WebAssign until after the drop/add period.** The online WebAssign quizzes, which can be found at <http://webassign.net> are **due by 10:00 p.m. on Sundays.** DO NOT wait until the last minute to take your quiz, since if you encounter a computer glitch or if WebAssign is down, you will be out of luck.

You must score a **minimum of 70% on the homework before you can take the quiz.** You have 10 attempts and unlimited time on the homework. You have three attempts and two hours on the quiz. The **online homework is due on Tuesday, April 24 at 10:00 p.m.,** thus you may continue working on the homework to improve your grade. The best quiz and HW scores are counted. The WebAssign homework and quizzes are open book and open note. You may have a tutor help you with the homework, but NOT with the quiz.

4.ATTENDANCE: Attendance in this class is required. After drop/add a one-half point bonus will be given for attendance on the days when there is no quiz, homework collection, or exam. Please print out lecture notes and bring them to class.

5.EXAMS: There will be three exams and a cumulative final exam. Exams will be held during class, the dates are on the course calendar.

6.QUIZZES: There will be twelve quizzes. The top 10 quiz scores will be used in the computation of your final grade. See the course calendar for quiz dates and material to be covered on the quiz.

7.MAKE-UP POLICY: All make-up work must be completed by Wednesday, April 25 at noon.

i) **Exams:** If you have a conflict due to a UF sponsored event you need to bring your documentation to Mrs. Tornwall in Little 374 at least one week (otherwise 5 point penalty) before the exam to sign up for the make-up which will be given within one week of the test date. If you miss for any other reason you must notify Mrs. Tornwall within a week of the exam (otherwise 5 point penalty). There is a 10 point penalty for missing the final unless you have made a prior arrangement with Mrs. Tornwall.

ii) **Discussion quizzes:** There are no make-ups, unless, a) you are participating in a UF sponsored event, for which you must bring your documentation at least one week prior to Mrs. Tornwall. b) you miss at least three quizzes for which you have valid, documentable reasons for your absences. You will be allowed to make up the excused quizzes that are in excess of two. To be eligible for a make-up you must have received credit for at least half of the bonus points. Bring your documentation to Mrs. Tornwall in Little 374 within one week of your third discussion quiz absence. c) you miss because of a religious holiday. You must notify

Mrs. Tornwall in lecture class within the first three weeks of class if you will be missing discussion class due to a religious holiday. **d)** you miss because of a court-ordered obligation – see Mrs. Tornwall.

8.INCOMPLETE: A grade of I (incomplete) will be considered only if you meet the Math Department criteria which is found at www.math.ufl.edu. If you meet the criteria you must see Mrs. Tornwall before finals week to be considered for an I. An I only allows you to make up your incomplete work, not redo your work.

9.CALCULATORS: Calculators will not be allowed during exams and quizzes.

10.COURSE GRADE: The course is based on 500 points accumulated as follows and will be kept on Sakai:

Book HWs (6 @ 8 pts, for a max of 40 pts)	40 points	(8%)
Discussion Quizzes (best 10 of 12 @ 8 pts)	80 points	(16%)
Online Webassign HWs (13 @ 2 pts, for a max of 20)	20 points	(4%)
Online Webassign Quizzes (best 10 of 13 @ 5 pts)	50 points	(10%)
Exams (3 @ 70 pts)	210 points	(42%)
Cumulative Final Exam	100 points	(20%)

You must retain all returned papers in case of any discrepancy with your course grade. Mistakes in grading or recording of scores without the original document cannot be corrected. Disputed points can be corrected only within a week of when you get your paper back.

11.GRADING SCALE: The **course grade is determined by the number of points** you have, **not by the percentage**, and will be strictly enforced.

A = 450-500 points (90%)	For information about UF grades and grading policies go to
A - = 435-449 points (87%)	http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html .
B+ = 420-434 points (84%)	
B = 400-419 points (80%)	
B - = 385-399 points (77%)	
C+ = 370-384 points (74%)	For information on dropping courses and withdrawals go to
C = 350-369 points (70%)	http://www.registrar.ufl.edu/catalog/policies/regulationdrops.html .
C- = 335-349 points (67%)	
D+ = 320-334 points (64%)	
D = 300-319 points (60%)	
D- = 285-299 points (57%)	
E = below 285 points	

12.FREE HELP: In addition to attending class regularly and visiting Mrs. Tornwall, during her office hours, the following aids are available.

- 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. Go to www.teachingcenter.ufl.edu to find their hours. You can also request free one-on-one tutoring.

- Textbooks and solutions manuals are located at the reserve desks at the Marston Science Library, at the Norman Hall Library and at the Smathers Library West.

- Private Tutors: If after availing yourself of these aids, you feel you need more help, you may obtain a list of qualified tutors for hire at www.math.ufl.edu. Search “tutors”.

- The Counseling Center has some informative information on developing math confidence. Go to <http://www.counseling.ufl.edu/cwc/Developing-Math-Confidence.aspx> for information on math confidence and information on joining the Academic Confidence Group.

13.SUCCESS: Success in MAC1114 depends largely on your attitude and effort. Attendance and participation in class is critical. It is not effective to sit and copy notes without following the thought processes involved in the lecture. For example, you should try to answer the questions posed by your instructor. Students who actively participate have greater success.

Be aware that much of the learning of mathematics at the university takes place outside of the classroom. You need to spend time reviewing the concepts of each lecture **before** you attempt homework problems. It is also important to spend some time looking over the textbook sections to be covered in the next lecture to become familiar with the vocabulary and main ideas before the next class. That way you will better be able to grasp the material presented by your instructor. As with most college courses, you should expect to spend a **minimum** of 2 hours working on your own for every hour of classroom instruction.

It can also be very helpful to study with a group. This type of cooperative learning is encouraged, but be sure it leads to a better conceptual understanding. **You must be able to work through the problems on your own.** Even if you work together, **each student must turn in his or her own work, not a copied solution, on any collected individual assignments.**

14.STUDENTS WITH DISABILITIES: Students requesting classroom accommodation must first register with the Disability Resource Center. The DOS will provide documentation to the student who must then provide this documentation to Mrs. Tornwall, Little 374, when requesting accommodation.

15.ACADEMIC HONESTY GUIDELINES: 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. Exhibiting honesty in academic pursuits and reporting violations of the Academic Honesty Guidelines will encourage others to act 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).

16.MAC 1140 BOOK HW ASSIGNMENTS: You should read the textbook sections covered in each day's lecture before class. After each lecture, review your notes and the text to make sure you understand the main ideas prior to working the exercises.

You should complete each assignment **before** your next lecture class, since the material in each new lecture builds on previous concepts.

Note: We will be using the lecture notes from MAC1147. The lecture number from MAC1147 is given in parentheses.

L1 (L25) Radian and Degree Measure

Reading: Section 4.1

Exercises (4.1), page 288: 17, 19, 21, 28, 31, 33, 41, 50, 55, 57, 61, 90, 94, 102, 111, 112, 118, 119, 123

L2 (L26) Trigonometric Functions and the Unit Circle

Reading: Section 4.2

Exercises (4.2), page 297: 5, 7, 17-25 odd, 35-47 odd, 62, 64, 69, 70

L3 (L27) Right Triangle Trigonometry and Trigonometric Functions of Any Angle

Reading: Sections 4.3 and 4.4

Exercises (4.3), page 306: 5, 11, 13-17 odd, 21-24, 29, 30, 33, 34, 57-60, 63, 64, 67, 68, 72, 77-82

Exercises (4.4), page 316: 13, 16, 19-22, 24, 29, 30, 32, 35, 36, 37-57 odd, 61, 67, 69, 72, 97

L4 (L28) Graphs of Sine and Cosine Functions

Reading: Section 4.5

Exercises (4.5), page 326: 16, 18, 19-23 odd, 43, 47, 51, 57, 65, 73, 80, 83, 85, 87, 90, 95, 99, 101

L5 (L29) Graphs of Other Trigonometric Functions

Reading: Section 4.6

Exercises (4.6), page 337: 9-14, 17, 22, 23, 27, 32, 35, 37, 38, 61-64, 98

L6 (L30) Inverse Trigonometric Functions

Reading: Section 4.7

Exercises (4.7), page 347: 5-19 odd, 43-47 odd, 49-54, 57, 63, 65, 67, 69, 73, 79, 87, 88, 105, 110, 112-114

L7 (L31) Applications

Reading: Section 4.8

Exercises (4.8), page 357: 6, 21, 25, 26, 33, 34, 35, 37, 39, 47, 48

L8 (L32) Using Fundamental Identities

Reading: Section 5.1

Exercises (5.1), page 377: 17, 18, 25-30, 37-47 odd, 53, 75, 77, 81, 95, 101, 113, 115, 136

L9 (L33) Verifying Trigonometric Identities

Reading: Section 5.2

Exercises (5.2), page 385: 11, 12, 16, 17, 24, 25, 30, 31, 41, 44, 65, 67, 72

L10 (L34) Solving Trigonometric Equations

Reading: Section 5.3

Exercises (5.3), page 394: 7, 8, 11, 12, 14, 21, 22, 25, 28, 33-43 odd, 63, 67, 99

L11 (L35) Sum and Difference Formulas

Reading: Section 5.4

Exercises (5.4), page 402: 7, 12, 13, 31, 32, 35, 37, 38, 43, 44, 47, 57, 59, 61, 67, 75, 83, 84, 93, 94

L12 (L36) Multiple-Angle and Product-to-Sum Formulas

Reading: Section 5.5

Exercises (5.5), page 413: 11-13, 17, 20, 22, 23, 25, 29, 31, 37, 41, 43, 53-55, 59, 63, 67, 69, 73, 74, 77, 79, 89, 91, 99, 116, 131, 133, 140

L13 (L37) Laws of Sine and Cosine

Reading: Sections 6.1 and 6.2

Exercises (6.1), page 434: 6, 14, 33, 36, 39, 53

Exercises (6.2), page 441: 6, 8, 27, 33, 47

As of 1/2/12