MAC 1114

Student Guide

Spring 2014

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MAC1114: TRIGONOMETRY

Spring 2014

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MAC 1114 Trigonometry

Spring 2014 - MAC1114 Calendar

Exam 1 (4.1-4.4) – January 30th, Thursday, 6:30-8:00 pm
Exam 2 (4.5-4.8) – February 20th, Thursday, 6:30-8:00 pm
Exam 3 (5.1-5.4) – March 25th, Tuesday, 6:30-8:00 pm
Exam 4 (5.5, 6.1-6.2) – April 15th, Tuesday, 6:30-8:00 pm
Make-up Final (4.1-6.2) – April 28th, Monday, 3:30-5:00 pm

	Monday	Tuesday	Wednesday	Thursday	Friday
January	6	7 **FIRST DAY**	8	9 4.1	10
	26	14 4.1	15	16 4.2 HW 1	17
	20 Holiday **no class**	21 4.3	22	23 4.3-4 Quiz 1	24
	27 WA 1 Due @ 10 pm	28 4.4	29	30 Review **EXAM 1** & HW 2	31
February	3 WA 2 Due @ 10 pm	4 4.5	5	6 4.5-6 Quiz 2	7
	10 WA 3 Due @ 10 pm	11 4.7	12	13 4.8 Quiz 3	14
	17 WA 4 Due @ 10 pm	18 4.8	19	20 Review **EXAM 2** & HW 3	21
March	24 WA 5 Due @ 10 pm	25 5.1	26	27 5.1-2 Quiz 4	28
	3	4	5	6 Spring Break	7
	10 WA 6 Due @ 10 pm	11 Review(5.1-2) 5.3	12	13 5.3 HW 4	14
	17 WA 7 Due @ 10 pm	18 5.3-4	19	20 5.4 Quiz 5	21
	24 WA 8 Due @ 10 pm	25 Review **EXAM 3**	26	27 5.5 HW 5	28
April	31 WA 9 Due @ 10 pm	1 5.5	2	3 6.1 Quiz 6	4
	7 WA 10 Due @ 10 pm	8 6.1-6.2	9	10 6.2 HW 6	11 Last day to drop/withdraw
	14 WA 11 Due @ 10 pm	15 Review **EXAM 4**	16	17 Review for Make-up Final	18
	21 WA 12 Due @ 10 pm	22 **No Class Extra OH**	23	24 **No class** Reading Day	25 **No class** Reading Day

April 11th is the last day to drop/withdraw. Final grades are available on ISIS on May 7.

2. INTRODUCTION

2.a COURSE CONTENT: In this course, will cover

- The theory of radians, degrees and their measures
- How to evaluate trigonometric functions using the unit circle and knowledge of angles
- Trigonometry of the right triangle
- Applications of Trigonometry
- How to graph trigonometric functions, both standard and inverse functions
- Trigonometric identities and special formulas
- The Law of Sines and the Law of Cosines

For more information on math courses and math advisors go to http://www.math.ufl.edu.

2.b PREREQUISITES: This course assumes prior knowledge of intermediate algebra (Algebra 2) and trigonometry. Students should be able to do arithmetic without a calculator.

2.c REQUIRED MATERIALS: Access to the textbook(may be online e-Book) and to the online program WebAssign are **required**. The solutions manual is NOT required.

Textbook – _Precalculus_ _UF Custom Edition_, 9th edition, by Larson will be used for this course. Please note that complete textbook may be also used. The textbook is also available at local bookstores. Copies of the book and solutions manual are also available for in-library use at the reserve desk of UF Norman Library and UF Smathers Library West. Homework problems from the textbook will be graded.

WebAssign – Online homework and quizzes from WebAssign will count toward your grade. Students **must purchase** the access code for the online WebAssign work. There are several options online and in bookstores to obtain the text and the WebAssign access code. You may purchase the access code, textbook and e-book for $86 or the access code and e-Book for $50 at:
http://www.cengagebrain.com/shop/en/US/storefront/US?cmd=DisplayLandingPage&entityNumber=4462&entryPoint=storefront&cid=1-1MSYIRB&id=60333&messageType=DisplayLandingPage

To access WebAssign, visit www.webassign.net/ufl/login.html and use your Gatorlink username and password to login. Webassign provides a **two week grace period** to use the online homework system before you must purchase the access code.

2.d E-LEARNING SAKAI: E-Learning Sakai, a free UF tool, is located at http://lss.at.ufl.edu. You can find your grades, announcements, lecture outlines, office hours, free help information, test locations, mail tool, etc. at this site. You are responsible for verifying that your grades are accurate. **You have one week after a score has been posted to contact me if you believe there has been a grading or a recording error.** Use your Gatorlink to login.

2.e LECTURES: The lecture provides the main presentation of course material and will follow as closely as possible the calendar and lecture outline provided in this guide. **Attendance is required.** You are responsible for learning lecture material missed due to an absence. You are also responsible for reading the sections to be presented in class in the textbook before each lecture.

2.f FREE HELP: In **addition to attending class and visiting me either during scheduled Office Hours or by appointment**, 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 Norman Hall Library and 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.

2.g 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 lecturer. 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 lecturer. As with most college courses, you should expect to spend a **minimum** of 3 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 or online work.**

2.h STUDENTS WITH DISABILITIES: Students requesting classroom accommodation must first register with the Disability Resource Center. The Dean of Students Office will provide documentation to the student who must then provide this documentation to me at Little 475, when requesting accommodation.

2.i 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).

3. TESTING

The first four exams will take place at 6:30 p.m. See the course calendar for the dates. The cumulative make-up final is during finals week.   Room locations will be posted on Sakai prior to the exams.

Students are responsible for material covered in the textbook sections (including practice problems that we may not have had time to work out during lecture), all assigned book homework problems, and all assigned Webassign material.

You should bring to each test only* the following:

- Your UF Gator One Card.
- Soft lead pencils.
- Knowledge of your section number.

*It is suggested that you do not bring anything of value to the test since you are not allowed to take items such as backpacks to your seat.

NO CALCULATORS ARE PERMITTED. All electronic devices must be put away. This includes phones. Scratch paper will be provided. The Test Form Code, as well as **your UF ID**, name, and section number must be encoded correctly or you will **lose points.** No one will be admitted to the test 20 minutes after the starting time of the test. No one will be permitted to leave the test until 20 minutes after the stated start time.

4. GRADING

4.a COURSE GRADE: The course is based on 500 points accumulated as follows:

Class Participation and Attendance	30 points	(6%)
Written HWs (6 @ 12 pts, for a max of 60 pts).	60 points	(12%)
Quizzes (best 5 of 6 @ 10pts)	50 points	(10%)
Online Webassign HWs (best 10 of 12 @ 6 pts)	60 points	(12%)
Exams (4 @ 75 pts)	300 points	(60%)
Total	500 points	

Use the scale below to determine your final letter grade. 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%)	B - = 385-399 points (77%)	D+ = 320-334 points (64%)
A - = 435-449 points (87%)	C+ = 370-384 points (74%)	D = 300-319 points (60%)
B+ = 420-434 points (84%)	C = 350-369 points (70%)	D- = 285-299 points (57%)
B = 400-419 points (80%)	C- = 335-349 points (67%)	E = below 285 points

For information on **dropping courses and withdrawals** go to:
https://catalog.ufl.edu/ugrad/current/regulations/info/drops.aspx#drop

For information about **UF grades and grading policies** go to:
https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

4.b BOOK HOMEWORK: The text assignments on page 10 represent the <u>minimum</u> number of problems you should do in each section and serve as a basis for your questions in your discussion section. Homework must be done neatly and work must be shown for credit. You do not need to copy the problem from the book. Homework will be checked for completeness and a few problems will be graded for accuracy. The work should be your own and not copied from the solutions manual. Homework will be collected six times during the semester. See the calendar for collection dates. See section 4e for the make-up policy.   Some homework problems suggest the use of a graphing calculator. They are designed to help you visualize important concepts and to reinforce the mathematical processes involved. The use of a calculator when doing homework is not required. **Calculators are not permitted on quizzes nor tests.**

4.c QUIZZES will be administered during class or using WebAssign. Quizzes will be based on the previous lectures and homework assignments. See the calendar for more information. If you feel there is a grading error or posting error on Sakai, you must discuss it with me within one week. No aids may be used on the quizzes. See section 4e for the make-up policy.

4.d ON-LINE WEBASSIGN HOMEWORK AND QUIZZES: If you purchased a new book, the access code probably came with the book. If you did not purchase a new book then you will need to purchase the access code. It can be purchased at the link in the required materials section 2c. Use your Gatorlink to login. See the calendar for the WebAssign due dates**.** You have 10 attempts and unlimited time on the homework. You have three attempts and 1 hours on WebAssign quizzes. The online WebAssign quizzes, which can be found at http://webassign.net/ufl/login.html are **due by 10:00 p.m. the day assigned**.   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. 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.e MAKE-UP POLICY: All make-up work must be completed by Monday, April 21st at noon.

i) **Make-up - Exams**: If you have a conflict due to a UF sponsored event or an assembly exam in another course, you need to bring your documentation to me in Little 475 at least one week before the exam to sign up for the make-up which will be given within one week of the test date, otherwise there will be a 5 point penalty.   If you miss for any other reason you must notify me within a week of the exam, otherwise there will be a 5 point penalty. To be eligible for this make-up you must have an good (80%) class participation and attendance score so far.

If other classes are scheduled during the exam time, University policy states that assembly exams take precedence over the evening class and the evening class instructor must provide make-up work and cannot penalize students who miss because of an assembly exam.

ii) **Make-up – 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 me. **b)** You miss at least two discussion quizzes for which you have valid, documentable reasons for your absences. You will be allowed to make up the excused absences that are in excess of two. To be eligible for this make-up you must have an good (80%) class participation and attendance score so far. Bring your documentation to me within one week of your third discussion quiz absence. **c)** You miss the quiz because of a religious holiday. You must notify me within the first three weeks of class if you will be missing a class due to a religious holiday. **d)** You miss the quiz because of a court-ordered obligation, death or extreme case, you must see me.

iii) **Make-up – Homework collection:** If you are absent on a collection day, you have one week to bring the listed homework to your me during office hours or give them to the front desk. Upon such event, the assignment will have a 2 point penalty for each weekday it is late. If you are participating in a UF sponsored event, you must bring your documentation at least one week prior to me to avoid the point penalty. If you are observing a religious holiday, you must notify me within the first three weeks of class.

4.f 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 me before finals week to be considered for an I. An I only allows you to make up your incomplete work, not redo your work.

5. INSTRUCTOR EVALUATIONS
 Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at https://evaluations.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. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results.

6.TEXTBOOK HOMEWORK ASSIGNMENTS

MAC 1114 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. If you have questions about the reading or homework exercises, you may ask me during class or office hours. Tutoring is also available at the Teaching Center. You should complete each assignment **before** your next lecture class, since the material in each new lecture builds on previous concepts.

HW 1: Read Section 4.1 and A.1-6
    Exercises (4.1), page 269: 11-23 odd, 28, 31, 33, 41, 50, 55, 57, 61-67, 69, 70
    Algebra Review Sheet

HW 2: Read Section 4.2-4
    Exercises (4.2), page 277: 1-29 odd, 32, 34, 35, 38, 39, 40, 42, 49, 51-54
    Exercises (4.3), page 286: 5, 10- 13, 16, 18, 19, 22-26, 29, 41-44, 46, 49, 52, 54, 55, 57-60, 63, 64, 67, 68, 70, 72
    Exercises (4.4), page 296: 13, 16, 19-22, 24, 29, 30, 32, 35, 36, 37-67 odd, 69, 72, 74, 91-95 odd, 97

HW 3: Read Section 4.5-4.8
    Exercises (4.5), page 306: 5-18, 19, 22, 25, 40, 43, 47, 57, 73, 80, 83, 85, 87, 90
    Exercises (4.6), page 317: 9-14, 17, 22, 23, 27, 31, 35, 37, 61-64
    Exercises (4.7), page 326: 5-17 odd, 43, 45, 47, 49, 54, 57, 63, 65, 67, 69, 73, 78, 103, 108
    Exercises (4.8), page 336: 6, 21, 25, 26, 33, 34, 35, 37, 39, 47, 48

HW 4: Read Section 5.1-5.3
    Exercises (5.1), page 355: 7-13 odd, 22-28 even, 38, 39, 41, 53, 56
    Exercises (5.2), page 362: 11, 12, 16, 18, 24, 25, 29, 30, 31, 32, 36, 41, 44
    Exercises (5.3), page 371: 7, 8, 11, 10, 12, 14, 18, 21, 22, 25-43 odd

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HW 5: Read Section 5.4-5.5
    Exercises (5.4), page 379: 7, 8, 11-25 odd, 30, 31, 33, 35, 37, 38, 43, 44, 47, 57-63 odd, 72, 74
    Exercises (5.5), page 389: 7-23, 30, 31, 33, 35, 37, 38, 39, 42, 43, 45-71 odd

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HW 6: Read Section 6.1-6.2
    Exercises (6.1), page 408: 5-17 odd, 26, 27, 29, 32, 35-38, 40, 42, 47-51, 55, 56
    Exercises (6.2), page 415: 5-17 odd, 25, 26, 29, 30, 37, 40, 43, 44, 45-50, 60