

Syllabus

MAC 1114, Trigonometry, Fall 2011, 3 credits

Prerequisite: MAC 1105, College Algebra (grade of C or better), or ALEKS placement exam (score of 45 or better)

Instructor:	Office:
Office Hours:	Office Phone:
E-mail Address:	

Description: The goal is to prepare students (primarily science and engineering majors) for more advanced coursework in mathematics - specifically calculus - by developing an improved knowledge base in the requisite trigonometry topics and suitable study/work habits. To achieve this, this course will require the student to complete assignments on time, follow instructions precisely, and demonstrate completion of the following objectives:

Objectives, Learning Outcome Goals: Upon successful completion of this course, the student will have the following knowledge and skills required for courses using Trigonometry:

1. Knowledge of basic trigonometric functions, relations, and their graphs;
2. The ability to manipulate, and simplify trigonometric functions and identities;
3. Knowledge of analytical and graphical descriptions of trigonometric function and their inverses;
4. The ability to use trigonometric functions and identities to find solutions of triangles;
5. The ability to solve conditional trigonometric equations;
6. Knowledge of DeMoivre's theorem and its application;
7. The ability to manipulate two dimensional vectors, their sums, differences, and dot products to solve simple applications

IFP General Education Outcomes:

1. Knowledge in several different disciplines;
2. The ability to think critically;
3. The ability to communicate effectively;
4. An appreciation for how knowledge is discovered, challenged, and transformed as it advances;
5. An understanding of ethics and ethical behavior.

Further information is available at <http://www.fau.edu/deanugstudies/NewGeneralEdCurriculum.php>

General Education: This course satisfies, in part, the general education requirements for Foundations of Mathematics and Quantitative Reasoning. Further information is available at:

http://www.science.fau.edu/student_services/student_info_gen_edu.php

Materials: The text for this course is Precalculus, by Michael Sullivan, 9th edition, published by Pearson/Prentice-Hall. See the next section. Students must bring scantrons and a scientific calculator without graphing or programming capability (with e^x & \ln key(s)) to quizzes and exams. The calculator is needed for some homework, quiz, and exam problems, but may NOT be used during any quiz or exam unless specifically authorized by the instructor.

Websites: This course uses Blackboard (<http://bb.fau.edu>, sign in as to MyFAU) and the web-based course MyLabsPlus for the text Precalculus, by Michael Sullivan, 9th edition, published by Pearson/Prentice-Hall. MyLabsPlus can be accessed directly from the page for this course in Blackboard. Students are expected to check Blackboard several times a week for updates regarding assignments, quizzes, and exams. Once registered in MyLabsPlus, students have access to an electronic version of the text. _

Attendance Policy: Regular attendance is expected, including active involvement in all class sessions and professional conduct in class. In particular, a student should avoid leaving during lecture, unless he or she is not feeling well or needs to use the restroom. A student who must leave early for an appointment should notify the instructor at the start of class.

Tutoring: For tutoring resources, visit <http://www.math.fau.edu/MLC/index.php>

Course Grade: The overall course grade is based on the quiz, midterm exam, final exam, and MyMathLab grades as follows:

Quiz average	20%
Midterm exam average	30%
Final exam grade	40%
MyMathLab grade	10%

Grading Scale:

	A: 90% or above	A-: 87-89%
B+: 84-86%	B: 80-83%	B-: 77-79%
C+: 74-76%	C: 70-73%	C-: 67-69%
D+: 64-66%	D: 60-63%	D-: 57-59%
	F: 56% or below	

Midterm Exams and Quizzes: There will be three midterm exams and a number of quizzes. The policy on missed exams and quizzes is left to the individual instructor.

Comprehensive Final Exam: The midterm exams and the quizzes form the basis for a cumulative final exam. The date, location, and time will be announced in class. The final exam may be made up if a conflict arises; however, the student may be required to demonstrate that an emergency or serious situation has arisen by providing documentation. Having another FAU final exam at the same time, being sick, attending the funeral of a relative, or having a military or civil obligation such as jury duty are examples of situations in which you would be allowed to take a make-up; oversleeping or getting stuck in traffic are not such examples.

Academic Honesty: Florida Atlantic University expects you to be honest in all of your university course work. By registering for this course, you agree to follow the academic guidelines stated in the university catalog. *Instances of academic dishonesty will be prosecuted to the fullest possible extent.*

Students With Disabilities: In compliance with the Americans with Disabilities Act (ADA), students who require special accommodation due to a disability to properly execute coursework must register with the Office for Students with Disabilities (OSD) and follow all OSD procedures. In Boca Raton, SU 133 (561-297-3880); in Davie, MOD 1 (954-236-1222); in Jupiter, SR 117 (561-799-8585); or at the Treasure Coast, CO 128 (772-873-3305). OSD website at <http://www.osd.fau.edu>.

This syllabus is subject to limited reasonable changes at the discretion of the instructor.

Exam dates:

Date	Exam
Friday, September 16	Exam #1
Wednesday, October 19	Exam #2
Friday, November 18	Exam #3
Sunday, December 4, 10:30 am – 1:00 pm	Final Exam

The time of the Final Exam is subject to change by the university.

Tentative due dates for MyLabsPlus homework:

Date	Homework due
8/29	Section 6.1
9/7	Section 6.2
9/12	Section 6.3
9/19	Sections 6.4 and 6.6
9/26	Sections 6.5 and 7.1
10/3	Sections 7.2 and 7.3
10/10	Section 7.4
10/17	Section 7.5
10/24	Sections 7.6 and 7.7
10/31	Section 8.1
11/7	Section 8.2
11/14	Sections 8.3 and 8.4
11/21	Sections 9.1 and 9.2
11/28	Section 9.3
12/4	Sections 9.4 and 9.5