

## MAC 1114 – Trigonometry – Spring 2012

M/W/F - 11am to 12:50pm

### GENERAL INFORMATION

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Office Hours: T/Th 12-1pm	

The best way to contact me is via email.

#### Course Materials:

- **Textbook:** Algebra & Trigonometry by M. Sullivan 9<sup>th</sup> edition packaged with MyMathLab access code OR
- MyMathLab Access Code alone (MyMathLab program contains an electronic version of the textbook)

Topics include trigonometric functions, identities, conditional equations, polar coordinates, vectors, polar graphs, complex numbers, DeMoivre's Theorem and conic sections.

**Prerequisite:** Grade of "C" or higher in College Algebra or an adequate score on the ALEKS placement test.

**Course Objectives:** At the end of the class, you should be able to:

- understand radian and degree measure of an angle and be able to convert radians to degrees and vice versa;
- find the length of an arc of a circle and find the area of a sector of a circle;
- find values trigonometric functions of any angle;
- know values of sine, cosine and tangent of  $0^\circ, 30^\circ, 45^\circ, 60^\circ, 90^\circ, 180^\circ, 270^\circ, 360^\circ$ ;
- know the graphs and properties of trigonometric functions;
- know how to graph sinusoidal graphs;
- understand the meaning of inverse trigonometric function;
- compute values of inverse trigonometric functions;
- know fundamental identities;
- know sum and difference, double angle, sum to product and product to sum formulas;
- prove trigonometric identities;
- solve trigonometric equations;
- use trigonometric functions, laws of sines and cosines to solve some applied problems;
- graph equations in polar system;
- express complex number in polar form and use De Moivre's theorem to find exponents of complex numbers;
- find the sum/difference/scalar product of geometric and algebraic vectors;
- recognize or find an equation of a conic.

**Sections to be covered:**

- Chapter 7.1 to 7.8
- Chapter 8.1 to 8.7
- Chapter 9.1 to 9.3
- Chapter 10.1 to 10.4
- Chapter 11.2 to 11.4

**Examinations:** There will be five in-class paper and pencil exams and a comprehensive final exam (see the tentative schedule). Moreover, you will have weekly online homework assigned in MyMathLab and short in-class quizzes at the end of every lecture.

Test Schedule
Test 1 (Jan. 23 <sup>rd</sup> )
Test 2 (Feb. 13 <sup>th</sup> )
Test 3 (Mar. 5 <sup>th</sup> )
Test 4 (Apr. 2 <sup>nd</sup> )
Test 5 (Apr. 16 <sup>th</sup> )
Final Exam (TBA)

**Online Assignments:** To access online assignments you must purchase an access code for MyMathLab. You can purchase it together with the textbook at FIU bookstore, or as standalone item either at the bookstore or at <http://pearsonmylabandmastering.com/>

If you are repeating the course, you may have to purchase a new access code as the textbook’s edition changed to the 9<sup>th</sup> edition.

If you are not able to purchase an access code immediately, you can use a temporary access code. Ask the instructor for the information.

-All online assignments have a due date so buy the access code as soon as possible. They will generally be available till 11:59pm on a due day. At that time, the program will not allow you to continue; therefore you have to plan accordingly. You will not be able to finish 50 problems in two hours. Late submissions will not be accepted under any circumstances.

- Online problems are algorithmic iterations of textbook exercises.

- Homework assignments can be attempted an infinite number of times, but must be completed within assigned period of time.

- At the end of the semester, the homework assignment with lowest grade will be dropped.

The **deadlines will not be extended** under any circumstances. All assignments are due at midnight on the due day. Do not wait till the last moment to complete the assignments since you don’t know what problems, technical or not, you might encounter along the way.

Please be advised that merely completing online assignments is not a guarantee of success in the class. You need to understand what you do. A test question will not come with the “help me solve it” button. So, if you can’t correctly do a homework problem without any help, you will not be able to do a similar problem on a test. Keep in mind that your grade in this class will be determined mainly by your performance on the tests.

**Grading policy:** To get a full credit for a problem on a test you must show your work. An answer alone, even correct, will get no credit.

Your final grade will be calculated as follows:

	% of Grade
Tests 1-5	10% each
Final exam	25%
MyMathLab online homework	10%
In-class quizzes	10%
Attendance and participation	5%
<b>Total</b>	<b>100%</b>

Your final grade will be assigned according to the following scale:

Letter Grade	Range	Letter Grade	Range	Letter Grade	Range
A	90 - 100%	B-	77 - 79	D	60 - 63
A-	87 - 89	C+	74 - 76	D-	57 - 59
B+	84 - 86	C	67 - 73	F	0-56
B	80 - 83	D+	64 - 66		

**Make-up Policy:** There will be no make-up tests. If you miss a test due to illness or other emergency and provide documentation supporting your claim, your final exam will count in place of the missed test. There will be no make-ups for online assignments, but the lowest score on homework assignments will be dropped at the end of the semester.

**Attendance Policy:** You are expected to attend all classes. It is your responsibility to complete all assignments on time regardless of whether or not you were present in the class. The attendance will count for 5% of your grade.

**Calculator Policy:** Use of graphing calculators is prohibited in this course. The scientific calculator TI- 30XA may be used occasionally.

**Incomplete Grade Policy:** The incomplete grade is given to a student who has substantially completed most of the course work but is unable to finish an exam or other work because of circumstances beyond the student's control. An IN grade cannot be given if it is necessary for the student to repeat the course. An incomplete grade must be made up within two semesters. There is no extension of the two semester deadline. The student must not register again for the course to make up the incomplete. Every incomplete grade must be approved by the Mathematics Department.

**Drop Date:** The last day to drop a course is **March 19**.

**Academic Misconduct:** Includes (but is not limited to) giving or receiving assistance on a test, quiz, or homework assignment for which such assistance is not permitted, falsifying a document to obtain an excusal from a test, and using unauthorized notes on a test or quiz. A more complete definition of Academic Misconduct is given in the Student Handbook. Penalties for Academic Misconduct range from an F in the course to expulsion from the University.

**Tutoring Services:** The Mathematics Department and the University offers a variety of services, ranging from online videos to free tutoring, designed to help students with their courses. Please visit <http://casgroup.fiu.edu/MathStatistics/pages.php?id=1168> for more details.

**Classroom Etiquette:** To create and preserve a classroom atmosphere that optimizes teaching and learning, students are expected to conduct themselves at all times in a manner that does not disrupt teaching or learning. You are expected to come prepared to the class, be on time and remain in the classroom for the duration of the lecture. Talking, eating, sleeping, checking e-mail, using a phone, reading a newspaper, preparing for another class, packing up early is disruptive to others around you and to the instructor. Though classroom participation is always welcomed, questions and comments must be relevant to the topic at hand. If you have a question or comment, raise your hand to be recognized. Electronic devices such as cell phones, iPods, and computers must be turned off during class. Student conduct which disrupts the learning process shall not be tolerated and may lead to disciplinary action and/or removal from class.

## MyLab Course Registration Instructions

Dear Student,

Your instructor chose MyLab to help you succeed in this course. With rich media, your e-Text, and much more, your course provides you with the resources you need to master even the most difficult concepts. Your course is designed to help you get a better grade!

### What You Need to Enroll in your Instructor's Online Course

- ✓ **A Course ID: khan69743**
- ✓ **A valid email address that you check regularly**  
This address will be used to confirm your registration and for other communication about the course. Your instructor will also use this email address to communicate with you.
- ✓ **A student access code** (Or, you can pay with a credit card or a PayPal account.)  
This pre-paid code is printed inside the Student Access Code Card. The code card may be packaged with your new textbook or it may be available for purchase separately from your school's bookstore.

### To Register and Sign in to Your Instructor's Course the First Time

- Go to [www.pearsonmylab.com](http://www.pearsonmylab.com).
- Click **Student** under Register.
- Enter your Course ID and click **Continue**.
- Verify the course information.
- You have a Pearson account if you have used other Pearson online products.  
Enter your username and password, and click **Sign In**.
- If you don't have a Pearson account, click **Create an account**.
- Complete your account set up by entering your name, email address, a username and password, and any other required information.
- Click **Create Account**. You now have a Pearson account.
- Paying for your course access.
  - If you have already purchased an access code, click **access code**, enter the code and click **Finish**.
  - If using a credit card or PayPal, click the button for the access you want to purchase, provide payment account information and verify your order.
  - You might also obtain a temporary access code, valid only for 17 days, if you are not able to purchase the code right away.
- Print the Confirmation & Summary

**You now have access to your instructor's online course.**

Click **Go To Your Course**, and then in the left panel, click the course name to start your work.

### To Sign in to Your Course Again Later

- Return to [www.pearsonmylab.com](http://www.pearsonmylab.com).
- Click **Sign In**.
- Enter your Pearson account username and password and click **Sign In**.

In the left panel, click the course name to continue your work.

**MAC 1114-Trigonometry-11am**

**Daily Class Schedule**

<b>Spring 2012</b>	<b>Date</b>	<b>Topics</b>
Week - 1	1/9	<b>Rules and Policies for the class</b>
	1/11	7.1
	1/13	7.2
Week - 2	1/16	<b>M.L.King Jr. Day – no school</b>
	1/18	7.3, 7.4
	1/20	7.4
Week - 3	1/23	<b>Test 1 (7.1-7.4)</b>
	1/25	7.5,7.6
	1/27	7.6
Week - 4	1/30	7.7
	2/1	7.7, 7.8
	2/3	7.8
Week - 5	2/6	8.1
	2/8	8.1, 8.2

	2/10	8.2
Week - 6	2/13	<b>Test 2 (7.5-8.2)</b>
	2/15	8.3
	2/17	8.3
Week - 7	2/20	8.4
	2/22	8.5
	2/24	8.5
Week - 8	2/27	8.6
	2/29	8.7, 9.1
	3/2	9.2
Week - 9	3/5	<b>Test 3 (8.3-8.6, 9.1)</b>
	3/7	9.2, 9.3
	3/9	10.1
Week - 10	3/12	<b>Spring Break</b>
	3/14	<b>Spring Break</b>
	3/16	<b>Spring Break</b>
Week - 11	3/19	10.1, 10.2

	3/21	10.2
	3/23	1.3
Week -12	3/26	10.3
	3/28	10.3, 10.4
	3/30	10.4
Week -13	4/2	<b>Test 4 (9.2-10.4)</b>
	4/4	11.2
	4/6	11.2
Week -14	4/9	11.3
	4/11	11.3
	4/13	11.4
Week -15	4/16	<b>Test 5 (11.2-11.3)</b>
	4/18	11.4
	4/20	Catch Up/Review
Week-16		Final week of the semester – <b>no classes</b>
		<b>Final Exam (TBA)</b>

