Marshall University
Syllabus

Course Title/Number	**MTH 122: Plane Trigonometry Section 202 CRN 4109**
Semester/Year	Spring 2015
Days/Time	MWF 11:00 – 11:50
Location	Smith Hall 516
Instructor	Dr. Michael Otunuga
Office	Morrow Library 103
Phone	304 696-3049
Textbook	Trigonometry by Dugopolski, 4th edition (with MyMathLab Access Code) ISBN: 9780321923486. More detail about MyMathLab is on the last page.
Calculator	TI-83 or similar
E-Mail	otunuga@marshall.edu
Office/Hours	MWF 10-11am, 2-3pm others by appointment. To make an appointment, email in advance when possible.
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy be going to www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to http://www.marshall.edu/academic-affairs/?page_id=802 Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

Course Description: From Catalog

A study of the trigonometric functions, graphs of the trigonometric functions, identities, equations, inverse trigonometric functions, vectors, complex numbers, and applications.

Course Objective

Course Objective	➢ To give students a solid understanding of trigonometric functions and their applications. ➢ To help prepare students for a course in calculus with analytic geometry. Students should also take college algebra before attempting calculus ➢ To help prepare students for study in areas such as physics, engineering, biology, chemistry, pharmacy, geology, medicine, and safety technology.

Course Content

Course Content	➢ Trigonometric Functions ➢ Acute angles and Right Triangles ➢ Radian Measure and Circular Functions ➢ Graphs of Circular Functions ➢ Trigonometric Identities ➢ Inverse Circular Functions and Trigonometric Equations ➢ Applications of Trigonometry and Vectors ➢ Complex Numbers and Polar Coordinates

The table below shows how each student learning outcomes will be practiced and assessed in the course.

Course Student Learning Outcomes	**How students will practice each outcome in this Course**	**How student achievement of each outcome will be assessed in this Course**
Students will analyze, compare, evaluate, and graph the six trigonometric functions and six trigonometric inverse functions	Students will complete homework, classwork, and quizzes to get practice and feedback.	Participation in quizzes, homework, Comprehensive final exam covering concepts encountered in higher math courses.
Students will use trigonometric functions to solve real-world applications involving triangles and vectors.	Students will complete homework, classwork, and quizzes to get Practice and feedback.	Participation in quizzes, and presentation/explanation of homework solutions to classmates
Students will demonstrate the ability to work with trigonometric identities and solve trigonometric equations in other mathematics courses such as calculus.	Students will complete writing assignments, homework, Classwork, and quizzes as part of daily classwork and quizzes.	Tests and quizzes, including problems requiring synthesis of many ideas to solve problems
Students will apply trigonometric functions to multiply and divide complex numbers and find the powers and roots of complex numbers.	Students will complete homework, classwork, and quizzes to get practice and feedback.	Tests and quizzes, including problems requiring synthesis of many ideas to solve problems

Course Requirement

Homework: Homework will be assigned weekly online on MyMathLab. Students are advice to finish the problems before the due date.

Quizzes: There will be a brief quiz during class meetings on Friday. Make-up quizzes are only given in the event of a university-excused absence.

Classwork: Classwork will be given to students. Students are to work in group.

Tests: There will be 3 in-class tests during the semester and a comprehensive Final Exam. If you know in advance that you will have an excused absence on a test date, please make arrangements to take the test early. Make-up exams will only be given in the event of a university-excused absence.

Final Exam: The final exam will be on **Tuesday May 5, 2015 from 10:15am-12:15pm**. Please make travel arrangements accordingly. Make-up/early tests will not be available to accommodate individual travel plans.

Grading Policy

Attendance	5%
Quizzes	10%
Homework	10%
Three major exams	55%
Final (comprehensive) exam	20%

The grading scale is rigid.

90.00 – 100	A
80.00 – 89.99	B
70.00 – 79.99	C
60.00 – 69.99	D
Below 60.00	F

Attendance Policy

Attendance **is required**. Unexcused absences from **nine** classes will result in a reduction of one letter grade for the semester; unexcused absences from **twelve or more** classes will result in an F. Y**ou will not be allowed to take makeup quizzes or exams, homework, etc. unless you have a university excuse**. If an excused absence results in missing quiz/exam/hw, then a make-up date (*within one week of absence*) must be scheduled with course instructor. Use of cell phone or sleeping during class will be counted as an unexcused absence. Consult your handbook regarding university excused absences.

TENTATIVE COURSE SCHEDULE (may be changed according to class pace)

Week (Mon - Fri)	**Section Coverage**	**Other Activities/Due Time**
Week 1 (1/12 – 1/16)	1.1, 1.2	Introduction; syllabus discussion on day 1
Week 2 (1/19 – 1/23)	1.3, 1.4	**Monday 1/19: MLK Day *(No class)***
Week 3 (1/26 – 1/30)	1.5, 2.1	
Week 4 (2/2 – 2/6)	2.2, 2.3	
Week 5 (2/9 – 2/13)	2.4, Review	**Test 1**: Friday 2/13, covering Chapters 1 and 2
Week 6 (2/16 – 2/20)	3.1,3.2	
Week 7 (2/23 – 2/27)	3.3, 3.4	
Week 8 (3/2 – 3/6)	3.5, 3.6	
Week 9 (3/9 – 3/13)	Review, 4.1	**Test 2**: Friday 3/13 covering Chapters 3
Week 10 (3/16 – 3/20)	**Spring Break**	**Spring Break – No classes**
Week 11 (3/23 – 3/27)	4.2, 4.3, 4.4	
Week 12 (3/30 – 4/3)	5.1, 5.2	
Week 13 (4/6 – 4/10)	5.3, 5.4,Review	**Test 3**: Friday 4/10 covering Chapters 4 and 5
Week 14 (4/13 – 4/17)	6.1, 6.2	
Week 15 (4/20 – 4/24)	6.3, 6.4, 6.5	
Week 16 (4/27 – 5/1)	Term Review	
Week 17 (5/4 – 5/8)	Exam Week	**Final Exam**: Tuesday 5/5, from 10:15am to 12:15pm.

MyMathLab Student Registration Instructions:

To register for MyMathlab (MML) (course name **MTH 122 Trigonometry-Otunuga)**

1. Go to www.pearsonmylabandmastering.com
2. Under Register, click **Student**.
3. Enter your instructor's course ID: otunuga35906, and click **Continue**.
4. Sign in with an existing Pearson account or create an account:
   - If you have used a Pearson website (for example, MyMathLab, or MyPsychLab), enter your Pearson username and password. Click **Sign in**.
   - If you do not have a Pearson account, click **Create**. Write down your new Pearson username and password to help you remember them.
5. Select an option to access your instructor's online course:
   - Use the access code that came with your textbook or that you purchased separately from the bookstore.
   - If not, buy access using a credit card or PayPal. Actually, just the MML access code may be sufficient. Once you are on MML, you have access to Textbook pages, Videos, and PowerPoints. You are supposed to view those media as a part of each homework.
   - If available, get 14 days of temporary access (Look for a link near the bottom of the page).
6. Click **Go To Your Course** on the Confirmation page. Under MyLab & Mastering New Design on the left, click **MTH 122 Trigonometry-Otunuga** to start your work.

To sign in later:

1. Go to www.pearsonmylabandmastering.com
2. Click **Sign in**.
3. Enter your Pearson account username and password. Click **Sign in**.
4. Under MyLab & Mastering New Design on the left, click **MTH 122 Trigonometry-Otunuga** to start your work.
5. **Do the Orientation HW**: Please do this first to learn how to enter your answers including graphs.

Additional Information:
See **Students** > **Get Started** on the website for detailed instructions on registering with an access code, credit card, PayPal, or temporary access.

Notes:

- Students will have unlimited time and unlimited number of attempts on each HW (as long as they finish the HW by the deadline and before it is closed).
- HWs are due on most Sundays at 11:59 PM. But there is a "late due" period that is usually till 4:00 PM on the following Friday.
- During that period, the point value students can earn will decrease by 7% per day. This applies only for the questions student attempt after the original due date