Marshall University Syllabus

Course Title/Number	MTH 122: Plane Trigonometry Section 204 CRN 4094
Semester/Year	Spring 2017
Days/Time	TR 2:00 – 3:15pm
Location	Smith Hall 418
Instructor	Dr. Michael Otunuga
Office	WAEC 3229
Phone	304 696-3049
Textbook	Trigonometry by Dugopolski, 4 th edition ISBN: 9780321923486.
Calculator	TI-83 or similar
E-Mail	otunuga@marshall.edu
Office/Hours	MTWR 1-2pm; 4-5pm; 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 <u>www.marshall.edu/academic-affairs</u> and clicking on "Marshall University Policies." Or, you can access the policies directly by going to <u>http://www.marshall.edu/academic-affairs/?page_id=802</u>
	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	\checkmark	Trigonometric Functions
	\succ	Acute angles and Right Triangles
	\succ	Radian Measure and Circular Functions

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

Course Requirement

<u>Homework</u>: Homework will be assigned weekly online on WeBWorK. Students are advised to finish the problems before the due date.

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

<u>Classwork:</u> Classwork will be given to students. Further instruction will be given in class.

<u>Tests</u>: 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.

<u>Final Exam</u>: The final exam will be on **Thursday May 4, 2017 from 12:45-2:45pm**. Please make travel arrangements accordingly. Make-up/early tests will not be available to accommodate individual travel plans.

Grading Policy

Attendance		25pts
Quizzes		50pts
Homework		75pts
Three major exams		300pts
Final (comprehensive) exam		150pts
The grading scale is rigid.		
90.00 - 100	А	
80.00 - 89.99	В	
70.00 – 79.99	С	
60.00 - 69.99	D	
Below 60.00	F	

Attendance Policy

Attendance **is required**. Unexcused absences from **six** classes will result in a reduction of one letter grade for the semester; unexcused absences from **seven or more** classes will result in an F. Inform me on time if you'll be missing more than five classes in the semester. You 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, sleeping during class, leaving class early/coming to class late will be counted as an unexcused absence. Consult your handbook regarding university excused absences.

TENTATIVE COURSE SCHEDULE (may change depending on class' pace)

Week (Mon - Fri)	Section Coverage	Other Activities/Due Time
Week 1 (1/9 – 1/13)	1.1, 1.2	Introduction; syllabus discussion on day 1
Week 2 (1/16 – 1/20)	1.3, 1.4	Monday 1/16: MLK Day (No class)
Week 3 (1/23 – 1/27) Week 4 (1/30 – 2/3)	1.5, 2.1 2.2, 2.3	
Week 5 $(2/6 - 2/10)$	2.4, Review	Test 1 : Thursday 2/9, covering Chapters 1 and 2
Week 6 (2/13 – 2/17) Week 7 (2/20 – 2/24) Week 8 (2/27 – 3/3)	3.1, 3.2 3.3, 3.4 3.5, 3.6	•

Week 10 (3/13 – 3/17)

4.2, 4.3, 4.4

Week 11 (3/20 – 3/25) Week 12 (3/27 – 3/31) Week 13 (4/3 – 4/7)

Spring Break 5.1, 5.2 5.3, 5.4, Review

Week 14 (4/10 – 4/14) Week 15 (4/17 – 4/21) Week 16 (4/24 – 4/28) Week 17 (5/1 – 5/5) 6.1, 6.2 6.3, 6.4, 6.5 Term Review Exam Week **Test 2**: Thursday 3/9 covering Chapters 3

Spring Break – No class

Test 3: Thursday 4/6 covering Chapters 4 and 5

Final Exam: Thursday May 4, 2017 from 12:45-2:45pm.