MTH 132 Sec 105
Fall 2017

Course Title/Number	Pre-calculus MTH 132 Sec 105
Semester/Year	Fall 2017
Days/Time	M-R 6:30-7:20pm;
Location	SH 516
Instructor	Dr. Michael Otunuga
Office	WAEC 3229
Office Hours	M-R 10-11am, 4-5pm
Phone	304 696-3049
E-Mail	otunuga@marshall.edu
Text	**Algebra and Trigonometry** by Stewart, 4th Edition. ISBN: 978-1-133-95974-8
Calculator	Graphing calculator is required for the course
Homework	Homework will be assigned on WeBWorK. Go to http://webwork.marshall.edu/webwork2 and click "F17-Math-132-Otunuga". Login using your Marshall username (lowercase) and password.
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 See the University Academic Calendar (http://www.marshall.edu/calendar/academic/) for course withdrawal dates.

Course Description

Precalculus with Science Applications.
Functions used in calculus including polynomial, rational, exponential, logarithmic, and trigonometric. Systems of equations and inequalities, conic sections, polar and parametric equations, sequences and series, Binomial Theorem.

How each student learning outcome will be practiced and assessed in the course

MTH 132 Student Learning Outcomes	How students will practice each outcome in MTH 132	How student achievement of each outcome will be assessed in MTH 132
Students will employ quantitative methods to solve problems drawn from basic algebra and geometry.	Students will attend class, work on homework, participate in class discussions, and ask questions.	Homework, quizzes, and exams.

	Chapters P, 1, and 2	
Students will demonstrate the ability to work with functions symbolically, visually, and numerically.	Students will attend class, work on homework, participate in class discussions, and ask questions. Chapter 2	Homework, quizzes, and exams.
Students will analyze, evaluate, and graphically represent quadratic functions, polynomial functions, rational functions, radical functions, exponential functions, logarithmic functions and six basic trigonometric functions and their inverses	Students will attend class, work on homework, participate in class discussions, and ask questions. Chapters 2, 3, 4, 5 and 6	Homework, quizzes, and exams.
Students will demonstrate the ability to work with equations and inequalities symbolically, visually, and numerically.	Students will attend class, work on homework, participate in class discussions, and ask questions. Chapter 7	Homework, quizzes, and exams.
Students will apply the Law of Sines and/or the Law of Cosines to determine missing data in triangles.	Students will attend class, work on homework, participate in class discussions, and ask questions. Chapter 6	Homework, quizzes, and exams.
Students will demonstrate an ability to analyze systems of linear equations using matrices and their operations to solve real-world problems.	Students will attend class, work on homework, participate in class discussions, and ask questions.	Homework, quizzes, and exams.

Attendance Policy

Attendance: Attendance is compulsory for this class. Coming late to class and leaving class early, playing with cell phone, sleeping in class will be counted as an unexcused absent.
Unexcused absences from **5** classes (equivalent of more than one-week unexcused absence) will result in a reduction of one letter grade for the semester; unexcused absences from **6 or more** classes will result in an F

Homework: Homework will be assigned on WebWork.

Tests: There will be 4 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 inform me on time and 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 **Monday Dec. 11, 2017**. Please make travel arrangements accordingly. Make-up/early tests will not be available to accommodate individual travel plans.

Grading Policy

Attendance:	50pts		
Homework:	100pts	**Scale**	
Exam 1:	100pts	90.00 – 100%	A
Exam 2:	100pts	80.00 – 89.99%	B
Exam 3:	100pts	70.00 – 79.99%	C
Exam 4:	100pts	60.00 – 69.99%	D
Final:	150pts	Below 60.00%	F

Tentative Schedule: (Subject to change)

Week	Date	Section		Week	Date	Section
1	8/21-8/24	1.1-1.7		10	10/23-10/26	**Exam 3**
						7.1-7.4
2	8/28-8/31	1.8-2.3		11	10/30-11/2	7.5, 9.1-9.2, 10.1-10.2
3	9/4-9/7	2.4-2.8		12	11/6-11/10	**Exam 4**
						11.1-11.2
4	9/11-9/14	**Exam 1**		13	11/13-11/16	11.3-11.4
		3.1-3.4				
5	9/18-9/21	3.5-4.3		14	11/20-11/23	13.1-13.3
6	9/25-9/28	4.4-4.7		15	11/27-11/30	13.4-13.5
						Final Exam: Mon Dec. 11, 7pm
7	10/2-10/5	**Exam 2**				
		5.1-5.5				
8	10/9-10/13	5.6-6.3				
9	10/16-10/19	6.4-6.5				