MTH 127 Sec 109 Fall 2016

Course Title/Number	College Algebra MTH 127 Sec 109
Semester/Year	Fall 2016
Days/Time	MW 5-5:50pm; TR 5-6:15
Location	SH 513
Instructor	Dr. Michael Otunuga
Office	WAEC 3229
Office Hours	Monday, Tuesday, Wednesday, Thursday from 10:00am to 12:00pm
Phone	304 696-3049
E-Mail	otunuga@marshall.edu
Text	College Algebra, 2 nd edition by Paul Sisson.
Calculator	Graphing calculator is required for the course
Homework	Homework will be assigned on WeBWork. Go to http://webwork.marshall.edu/webwork2 and click "F16-Math-127-130-Otunuga". Login using your Marshall username (lowercase) and passwords
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

A brief but careful review of the main techniques of algebra. Polynomial, rational, exponential, and logarithmic functions. Graphs, equations and inequalities, sequences. (PR: ACT Math 19 or ACT Math 20 or MTH099 or MTH102 or MTH 102B)

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

MTH 127 Student Learning Outcomes	How students will practice each outcome in MTH 127	How student achievement of each outcome will be assessed in MTH 127
Students will employ quantitative	Students will attend class, work on	Students will take quizzes
methods to solve problems drawn	homework, participate in class	after completing homework
from basic algebra and geometry.	discussions, and ask questions.	assignments.
Students will demonstrate the ability	Students will attend class, work on	Students will take quizzes
to work with functions symbolically,	homework, participate in class	after completing homework
visually, and numerically.	discussions, and ask questions.	assignments.
	Chapter 2	
Students will identify and implement	Students will attend class, work on	Students will take quizzes
appropriate solution methods	homework, participate in class	after completing homework
for single-variable equations	discussions, and ask questions.	assignments.
Students will identify and graph	Students will attend class, work on	Students will take quizzes
standard algebraic functions	homework, participate in class	after completing homework
	discussions, and ask questions.	assignments.
Students will interpret graphs of	Students will attend class, work on	Students will take quizzes
functions	homework, participate in class	after completing homework
	discussions, and ask questions.	assignments.
Students will construct functions to	Students will attend class, work on	Students will take quizzes
model applications	homework, participate in class	after completing homework
	discussions, and ask questions.	assignments.
Students will communicate written	Students will attend class, work on	Students will take quizzes
mathematics using appropriate	homework, participate in class	after completing homework
notation and explanation in English	discussions, and ask questions.	assignments.

Grading Policy

Attendance:	50pts	
Homework:	100pts	<u>Scale</u>
Exam 1:	100pts (9/15/2016)	90.00 – 100% A
Exam 2:	100pts (10/19/2016)	80.00 – 89.99% B
Exam 3:	100pts (12/1/2016)	70.00 – 79.99% C
Final:	150pts	60.00 – 69.99% D
		Below 60.00% F
Total:	600pts	

Attendance Policy

Students are expected to attend each class. **UNEXCUSED** absences from **five** classes will result in a reduction of one letter grade for the semester; unexcused absences from **six or more** classes will result in an F. To obtain an excused absence, please go to the Dean of Students' Office in MSC. Students **must** notify the instructor by phone or e-mail **prior to** an exam if they cannot take a scheduled exam. Students must present a valid reason for missing any exam. Makeup exams will be given to students outside of class time at the convenience of the instructor.

Tentative Course Schedule (Subject to change)

Week 1	8/22/16	1.2 Pg 16-18, 2.1
		Order of operations for real numbers, constants verses variables, identifying
		like terms, absolute value (including solutions for $abs(x) = 6$) all examples
	8/23/16	solving linear equations, if possible
	8/24/16	2.1, 1.1 Pg 6-8
	8/25/16	2.2, zero factor property in 1.2, 1.5
Week 2	8/29/16	1.5, 2.3
	8/30/16	factoring trinomials
	8/31/16	2.3
	9/1/16	practice solving quadratics by factoring and quadratic equation
	9/5/16	No class-Labor Day
Week	9/6/16	Review finding LCM, simplifying and combining rational expressions
3	9/7/16	2.4/2.5
	9/8/16	Review 1.4
	9/12/16	2.5/2.6
Week	9/13/16	practice solving radical equations
4	9/14/16	2.6/Review for Test 1
	9/15/16	Test 1
Week 5	9/19/16	3.1, 3.2
		practice graphing by plotting points, practice finding x and y intercepts of lines,
	9/20/16	identify horizontal and vertical lines
	9/21/16	3.3
	9/22/16	practice 3.3, foreshadow parallel and perpendicular lines, 3.4, 3.5
	9/26/16	3.6
Week 6	9/27/16	practice 3.5, 3.6
	9/28/16	4.1
	9/29/16	simplify and evaluate algebraic expressions, practice with function notation
	10/3/16	4.2

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		graph lines and parabolas by plotting points, identify x and y intercept and
Week	10/4/16	vertex
7	10/5/16	4.2, 4.3
	10/6/16	practice 4.3, foreshadow 4.4
	10/10/16	4.4
Week 8	10/11/16	practice 4.4
	10/12/16	4.5
		find formula for inverse (without using this terminology - solve for one variable
	10/13/16	in terms of the other), 4.6
	10/17/16	Review for Test 2
Week	10/18/16	Review for Test 2
9	10/19/16	Test 2
		evaluate algebraic expressions, factor polynomials, practice with common
	10/20/16	functions, 5.1
	10/24/16	5.2
Week	10/25/16	practice 5.2, foreshadow 5.3
10	10/26/16	5.3
	10/27/16	practice with common functions, write polynomial with given zeros, 5.4
	10/31/16	6.1
Week		domain of rational expressions, degree of polynomials, polynomial division,
11	11/1/16	determine x and y intercepts of rational functions
	11/2/16	6.1
	11/3/16	Review 1.3, 1.4
	11/7/16	7.1
Week	11/8/16	practice 7.1
12	11/9/16	7.2
	11/10/16	linear, quadratic, exponential word problems, 7.3
	11/14/16	7.4
Week	11/15/16	practice properties of logarithms
13	11/16/16	7.4
	11/17/16	linear, quadratic, exponential, logarithm word problems, 7.5
Week 14	11/28/16	7.5
	11/29/16	practice 7.5
	11/30/16	Review for Test 3
	12/1/16	Test 3
Week 15	12/5/16	8.1
	12/6/16	practice 8.1
	12/7/16	8.1
	12/8/16	Review for Final Exam
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