

Course Syllabus MTH 127 Section 205 Spring 2015

Course Title:	College Algebra - Expanded
Course Number:	MTH 127 -- Section 105 -- CRN 4119 -- Credit: 5 Hours
Textbook:	College Algebra, by Michael Sullivan, Ninth Edition
Sections Covered:	R.1- R.8, 1.1-1.7, 2.1- 2.4, 3.1- 3.6, 4.1- 4.4, 5.1- 5.5, 6.1- 6.6, 8.1-8.4
Course Description:	Basic Concepts of algebra; Equations and Inequalities; Graphs; Study of Functions and their Graphs; Linear and Quadratic Functions; Polynomial and Rational Functions; Exponential and Logarithmic Functions.
Calculator:	Any Scientific calculator, graphing calculators may not be allowed for some problems in exams.
Prerequisites:	ACT of 19 or above, SAT 460 or MTH 099.
Meeting Time:	MTWRF: 1:00 – 1:50 PM
Classroom:	Corby Hall 436
Instructor:	Dr. Basant Karna
Office:	Smith Hall 741B
Office Hours:	11:00-1:00AM -- MTWRF, Others by appointment
Phone/Email:	Phone: (304) 696-4332, Email: karna@marshall.edu
Webpage:	http://www.science.marshall.edu/karna/
Course Objectives:	<p>The students completing this course should be able to:</p> <ul style="list-style-type: none"> - understand mathematical concept of a function. - sketch and interpret the graphs of elementary functions. - manipulate and solve polynomial, rational, exponential, and logarithmic equations. - apply to new situations in mathematics and daily life. <p>The students will be ready for MTH 132.</p>
Course Contents:	<ul style="list-style-type: none"> - Review - Equations and Inequalities - Graphs - Functions and Their Graphs - Linear and Quadratic functions - Polynomial and Rational Functions - Exponential and Logarithmic Functions - System of Linear Equations
Attendance Policy:	Attendance is required and you must come with your text. Attendance will be taken every class day either by sign-in-sheet or by quiz. Having more than 25% absences (excused or unexcused) may result in a course grade of F! Absences which can be excused include illness, emergencies, or participation in another university activity. Documentation from an outside source must be provided.
Grading Policy:	<p>A. <i>Quizzes:</i> Throughout the semester, there will be 12 quizzes given during the last 15 minutes of the class on Fridays. Problems in quizzes will be given from assigned homework problems (textbook will not be allowed). Two lowest quizzes score will be dropped.</p> <p>B. <i>Exams:</i> There will be 3 exams given in class during the semester.</p> <p>C. <i>Homework Problems:</i> Homework problems will be assigned and collected. You are responsible for reading the text, working the exercises, coming to office hours for help when you're stuck, and being aware of the</p>

	<p>dates for the major exams.</p> <p>E. <i>Final Exam</i>: There will be a two-hour final exam on May 8, 2015.</p>														
Points Distribution:	<table> <tr> <td>Quizzes(10)</td> <td>100 Pts</td> </tr> <tr> <td>Homework Assignments</td> <td>50 Pts</td> </tr> <tr> <td>3 Major Exams</td> <td>300 Pts</td> </tr> <tr> <td>Final Exam</td> <td>125 Pts</td> </tr> <tr> <td>Attendance</td> <td>25 Pts</td> </tr> <tr> <td colspan="2">-----</td> </tr> <tr> <td style="text-align: right;">Total Pts:</td> <td>600 Pts</td> </tr> </table>	Quizzes(10)	100 Pts	Homework Assignments	50 Pts	3 Major Exams	300 Pts	Final Exam	125 Pts	Attendance	25 Pts	-----		Total Pts:	600 Pts
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Final Exam	125 Pts														
Attendance	25 Pts														

Total Pts:	600 Pts														
Grades	<p>The semester grade will be based on the percentage of the 600 total possible points, using the following scale.</p> <p>A: 90 -100 % , B: 80 - 89 % , C: 70 - 79 % , D: 60 - 69 % , F: 0 - 59 %</p>														
Make-ups:	<p>A. Quizzes: For unavoidable missed quizzes with valid documentation, I will give you make up quiz within a week of the original quiz date (up to two quizzes).</p> <p>B. <i>Exams</i>: Making up a missed exam is possible only if you receive prior permission from me and only for serious and unavoidable circumstances. Make-ups are likely to be more difficult than the original exam and must be taken within a week of the original exam date. You can't make up a make-up exam.</p> <p>C. <i>Final</i>: If you don't take final exam, you will receive "F" for the class.</p>														
Exam Dates:	<p>Exam 1 –Feb 13, Exam 2 – March 13, Exam 3 – April 17 (Fridays)</p> <p>Quizzes: Q1-J16, Q2-J23, Q3-J30, Q4-F6, Q5-F20, Q6-F27, Q7-M6, Q8-M27, Q9-A3, Q10-A10, Q11-A24, Q12-M1 (Fridays)</p> <p>Final Exam: May 8 @ 12:45 PM(Friday)</p>														
Important Dates:	<ul style="list-style-type: none"> • January 19, Monday – MLK, Jr. Holiday – No Class • January 20, Tuesday – “W” Withdrawal period begins • March 27, Friday – Last day to drop • March 16, Monday – March 21, Saturday – Spring Break- No Class • May 1, Friday – Last class day 														
Cell Phones:	All electronic devices should be shut off during class. <i>No Text Messaging!</i>														
University Policies	<p>By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by 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</p> <p>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</p>														
Free Tutoring:	Free tutoring in Music Smith Hall 115. See the tutoring schedule in classroom board or contact the math department.														
Disable Students:	<p>The Disabled Student Services web site is now available. You may visit it at http://www.marshall.edu/disabled . Students seeking special accommodations need to follow the university policy detailed at this web site. It is their responsibility to initiate the process for receiving accommodations based upon their disability. If you have any questions or comments, please contact Sandra Clements, the Director of Disabled Student Services.</p>														
Coming Late:	Students should come on time and stay in the class for entire class. If you are late by more than 5 minutes, you will be considered to be absent.														

Homework Problems

----- HW 1 -----

Section R.1: 9, 12, 15, 18, 21, 27, 31, 58, 71, 79, 91
Section R.2: 11, 18, 21, 23, 31, 33, 41, 45, 48, 55, 57, 63, 83, 89, 91, 93, 94, 103, 119, 123
Section R.3: 11, 13, 17, 25, 27, 31, 34
Section R.4: 27, **29**, 31, **35**, 37, 39, **41**, 43, 47, **49**, 51, 55, **57**, 59, **63**, 65, 69, **71**, 73, 75, **79**, 81, 89, **93**, 97, 101
Section R.5: 5, **10**, 13, **15**, 17, **21**, 23, **27**, 31, 33, 39-50(odds), 51, **53**, **57**, 61, **65**, **69**, 72, 79, 83, 97
Section R.6: **5**, 7, **8**, 9, **11**, 15, **17**, 19, **21**, 24
Section R.7: 6, **7**, 10, 13, 16, **17**, 25, 29, **31**, 35, **39**, 41, **44**, 45, **49**, 51, 61, **63**, 67, 69, **73**, 79

----- HW 2 -----

Section R.8: 15, **23**, **27**, **31**, 37, 39, 43, **47**, 55, 57, **58**, **59**, 65, **67**, 69
Section 1.1: 11, 13, **17**, 26, 27, **29**, 31, 44, **47**, 51, **55**, 59, **84**, 85
Section 1.2: 9, **11**, 13, **15**, 16, 21, **25**, 29, **31**, **35**, 39, **41**, 43, **45**, 56, 80, **87**, 93, 95
Section 1.3: 9, **11**, 14, **15**, 18, 22, **23**, 25, **27**, 28, 31, 47, **48**, 51, **53**, 59, 61, **66**

----- HW 3 -----

Section 1.4: **7**, 9, **11**, 17, **21**, 27, **29**, 41, **47**, 50, 53, **73**, 79, 81
Section 1.5: 11-16, **17**, 21, 23-30, 31-38, **39**, 41, **47**, 51, **53**, 55, **57**, 63, **69**, **71**, 73, **77**, 89, 93
Section 1.6: 7, **9**, 11, **14**, 15, **19**, 28, 31, **35**, 39, **41**, **44**, 47, **49**, 53
Section 2.1: **13**, 17, **19**, 25, 27, **29**, 33, **35**, 39
Section 2.2: 1-11, **11**, **15**, 17, **19**, **21**, 25, **29**, 31, 39-47 (odds), **51**, **53**, **59**, 65

----- HW 4 -----

Section 2.3: 1-10, **12**, 13, **15**, 21, **23**, 27, **29**, **31**, 33, **37**, 39, **41**, **43**, **45**, 47, **51**, 57, **61**, 63, **65**, 69, **71**, 73, 77, **79**, 91, **92**, 95, **111**
Section 2.4: **7**, **9**, 11, **13**, 17, 21, **23**, **25**, 27, 29, **31**, **35**, **39**
Section 2.5: 3, **5**, 6, 7, 9, **10**, 11, **13**, 17, **18**
Section 3.1: **5**, 7, 9, **10**, **15**, **17**, **19-26**, **27-38**, **39**, 41, **45**, 47, **49**, **51**, 55, **57**, 59, **63**, 65, **69**, **75**
Section 3.2: **9**, 10, **11-22**, **23**, 24, 25, **27**, 29
Section 3.3: **11-20**, **21**, 22, 24, **25**, 27, **29**, 31, **33**, 35, **37**, **45**, 47, 49, **51**

----- HW 5 -----

Section 4.5: **3**, 4, 5, **7**, **9**, 11, **13**, 15, **17**, 25
Section 5.1: **15**, **17**, **19**, 21, **25**, 27, **29**, 35, **37**, 41, **42**, 43, **45**, 47, **49**, 51, **55**, **57**, **61-64**, **65**, 66, **67**, 69-86 (ODDS)
Section 5.2: **13**, 15, **17**, 19, **21**, **25**, 26, **29**, 30, **31**, 33, **36**, 39, **43**, 45, **46**
Section 5.3: 7, **8**, **9**, **11**, 12, **23**, **45**, 47
Section 5.4: **5**, 6, 7, **9**, **11**, 17, **19**, 23, **25**, 34, **35**

----- HW 6 -----

Section 5.5: 11-68 (odds), 91, 95, 97, 99
Section 6.1: 7, 9, 11, 13, 17, 21, 27, 29, 33, 37, 41, 45, 49
Section 6.2: 11-71 (odds)
Section 6.3: 15, 19, 21, 27, 33-40, 41, 45, 53-60, 61, 65, 67, 69, 73, 77
Section 6.4: 9-45 (odds), 49, 53, 59, 63-70, 71, 77, 83, 87-110 (odds)
Section 6.5: 13-69 (odds)
Section 6.6: 5-73 (odds)
Section 8.1: 7, 9, 13, 25, 27, 31, 41, 51
Section 8.2: 5, 7, 11, 13, 17, 19, 21, 25, 27, 29, 37, 41, 44, 47, 48
Section 8.3: 7, 11, 15, 17, 19, 21, 33,
Section 8.4: 9, 11, 13, 15, 17, 19, 25, 27, 31, 33, 41, 45

Due dates are Mondays after the Sections are covered.