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## First Day Handout

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<b>Course</b>	College Algebra
<b>Number &amp; Section</b>	MATH 1314.F1C
<b>Start Date</b>	June 9, 2014
<b>End Date</b>	July 10, 2014
<b>Time*</b>	MTWTh 9:20am-11:35am
<b>Classroom</b>	WMS 233

<b>Professor</b>	Dr. Robert Jaster
<b>Email</b>	rjaster@odessa.edu
<b>Office</b>	WMS 223
<b>Office Phone</b>	(432) 335-6634

\* Class will meet only one Friday during the Summer I session – on Friday, June 13<sup>th</sup> 9:20am-11:35am.

### **COURSE DESCRIPTION**

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices.

### **REQUIRED MATERIALS**

#### Textbook

A hard copy of *College Algebra: Building Skills and Modeling Situations* by McKeague/Yoshiwara/Burzynski, 1<sup>st</sup> Ed. (ISBN-13: 978-1-936368-16-7).

Once the textbook has been purchased students should register for access at [www.xyzhomework.com](http://www.xyzhomework.com) using the Student Access Code on the inside front cover of the textbook. Computers are available at several places on campus including the Math Lab (WMS 201) and the Learning Resource Center. The Course ID for this section of college algebra is 3913.

#### Earbuds

Watching the videos on an Odessa College computer will require a pair of earbuds or headphones. The Math Lab has a limited number of headphones that may be checked out for use in the Math Lab.

#### Calculator

A calculator is required. The calculator should be capable of evaluating exponential and logarithmic expressions. The TI-30 is a relatively inexpensive calculator which is satisfactory for the course. A graphing calculator is recommended (the TI-84 in particular) but not required.

#### Paper

Standard-size loose-leaf notebook paper.

#### Pencils

Pencils for problem solving and exams.

### **OPTIONAL MATERIALS**

#### Solutions Manual

*Student Solutions Manual for McKeague's College Algebra* by Rueger, 1<sup>st</sup> Ed. (ISBN-13: 978-1-936368-91-4).

### **TUTORING**

Tutoring services are available through the Math Lab in WMS 201 and through the Student Success Center on the first floor of the Learning Resource Center.

### **COMMUNICATION**

The best way to contact me is by email. You can email me anytime; I usually check my email throughout the day and evening. I can also be contacted by phone during office hours. You may leave me a message if I am not in my office when you call.

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### GRADING

At the end of the semester each student's weighted average is computed using the following percentages.

Video Notes	10%
In-Class Problem Solving	15%
Electronic Assignments	10%
Exam 1	10%
Exam 2	10%
Exam 3	10%
Exam 4	10%
Final Exam	25%
<b>Total</b>	<b>100%</b>

Letter grades are assigned according to the student's weighted average.

Semester Grade	Weighted Average
A	90-100
B	80- 89
C	70- 79
D	60- 69
F	0- 59

#### Video Notes (10%)

Student should prepare for each class by watching the videos available at [www.mathtv.com](http://www.mathtv.com) for the textbook section(s) to be taught. Notes taken of the Mini-Lecture videos will be collected, graded, and returned in class. Video notes are not accepted late. The lowest two video note scores are dropped.

#### In-Class Problem Solving (15%)

Students will usually receive a score for participating in in-class problem solving. Make-up work is not available for in-class problem solving. The lowest two in-class problem-solving scores are dropped.

#### Electronic Assignments (10%)

Electronic assignments are to be completed online at [www.xyzhomework.com](http://www.xyzhomework.com). The attached calendar shows the date and time that each online assignment is due. Electronic assignments may not be submitted late. The lowest two electronic assignment scores are dropped.

#### Exams (65%)

There are four exams and a final exam. All exams should be completed in pencil. There is a 25% penalty for not using pencil. The dates of all exams appear below.

Exams	
Exam 1	Jun 13, 2014
Exam 2	Jun 19, 2014
Exam 3	Jun 26, 2014
Exam 4	Jul 2, 2014
Final Exam	Jul 10, 2014

The final exam score will replace the lowest exam score if doing so increases the student's semester average.

Make up exams are available only for (1) required participation in an Odessa College athletic event, or (2) the observance of a religious holy day (as defined by Texas Education Code §51.911(2b)). Students are required to notify the instructor prior to any such absence.

Date	Text	Topics	Homework Due
6/09		Introduction	6/11
	3.1	Paired Data and Graphing	6/11
6/10	3.2	Introduction to Functions and Relations	6/11
	3.3	Function Notation and More Graphing	6/11
6/11	3.4	Transformations and Other Graphing Techniques	6/12
6/12	3.5	Algebra and Composition with Functions	6/13
6/13	<b>Exam 1 (Sections 3.1-3.5)</b>		
	4.1	The Slope of a Line	6/16
6/16	4.2	Linear Functions and Equations of Lines	6/17
6/17	5.1	Quadratic Functions	6/18
6/18	5.2	Division with Polynomials	6/19
	5.3	Zeros of a Polynomial Function	
6/19	<b>Exam 2 (Sections 4.1-5.3)</b>		
	5.4	Graphing Polynomial Functions	6/23
6/23	5.5	Graphing Rational Functions	6/24
	5.6	Solving Polynomial Equations	6/24
6/24	6.1	Exponential Equations	6/25
6/25	6.2	The Inverse of a Function	6/26
6/26	<b>Exam 3 (Sections 5.4-6.2)</b>		
	6.3	Logarithms are Exponents	6/30
6/30	6.4	Properties of Logarithms	7/01
7/01	6.5	Common Logarithms and Natural Logarithms	7/02
7/02	<b>Exam 4 (Sections 6.3-6.5)</b>		
	6.6	Exponential Equations and Change of Base	7/07
7/07	7.1	Systems of Linear Equations in Two Variables	7/08
7/08	7.2	Systems of Linear Equations in Three Variables	7/09
7/09	7.5	Matrix Solutions to Linear Systems	7/10
7/10	<b>Final Exam</b>		

As shown in XYZ Homework, all online assignments are due on the indicated date at 9:10AM.