
First Day Handout

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|-----------------------------|-----------------|
| Course | College Algebra |
| Number & Section | MATH 1314.W3C |
| Start Date | June 9, 2014 |
| End Date | July 10, 2014 |

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|---------------------|--------------------|
| Professor | Dr. Robert Jaster |
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| Office Phone | (432) 335-6634 |

COURSE DESCRIPTION

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

REQUIRED MATERIALS

Textbook Access

The textbook for the course is *College Algebra: Building Skills and Modeling Situations* by McKeague/Yoshiwara/Burzynski, 1st Ed. (ISBN-13: 978-1-936368-16-7). Access to the textbook may be purchased online at www.xyztextbooks.com. The Course ID for this section of college algebra is 4048. Access to the textbook includes access to the homework assignments at www.xyzhomework.com and the videos at www.mathtv.com.

Computers are available at several places on campus including the Math Lab in room 201 of the Wood Building of Math & Science (WMS) and the Learning Resource Center.

Calculator

A calculator capable of evaluating exponential and logarithmic expressions is required. 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.

OPTIONAL MATERIALS

Earbuds

Watching videos on campus on an Odessa College computer will require a pair of earbuds or headphones. If you choose to watch videos on campus on a regular basis you might consider bringing your own earbuds or headphones. The Math Lab has a limited number of headphones that may be checked out for use in the Math Lab.

Solutions Manual

Student Solutions Manual for McKeague's College Algebra by Rueger, 1st 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.

Also, you may call my office phone and leave me a message if I am not there when you call. I will check my phone for messages each day that classes meet during Summer 1 (usually Monday through Thursday).

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GRADING

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

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

| | |
|------------------------|-------------|
| Electronic Assignments | 35% |
| Exam 1 | 10% |
| Exam 2 | 10% |
| Exam 3 | 10% |
| Exam 4 | 10% |
| Final Exam | 25% |
| Total | 100% |

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

Electronic Assignments (35%)

Electronic assignments are to be completed online at 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. The dates of all exams appear below.

| Exams | |
|------------|-----------------|
| Exam 1 | Jun 14-15, 2014 |
| Exam 2 | Jun 21-22, 2014 |
| Exam 3 | Jun 28-29, 2014 |
| Exam 4 | Jul 06, 2014 |
| Final Exam | Jul 09-10, 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.

| Start Date | Due Date | Text | Topics |
|-------------|-------------|------------------------------------------------|------------------------------------------------|
| 6/09 | 6/11 | 3.1 | Paired Data and Graphing |
| 6/10 | 6/11 | 3.2 | Introduction to Functions and Relations |
| 6/11 | 6/11 | 3.3 | Function Notation and More Graphing |
| 6/12 | 6/12 | 3.4 | Transformations and Other Graphing Techniques |
| 6/13 | 6/13 | 3.5 | Algebra and Composition with Functions |
| 6/14 | 6/15 | Exam 1 (Sections 3.1-3.5) | |
| 6/16 | 6/16 | 4.1 | The Slope of a Line |
| 6/17 | 6/17 | 4.2 | Linear Functions and Equations of Lines |
| 6/18 | 6/18 | 5.1 | Quadratic Functions |
| 6/19 | 6/19 | 5.2 | Division with Polynomials |
| 6/20 | 6/20 | 5.3 | Zeros of a Polynomial Function |
| 6/21 | 6/22 | Exam 2 (Sections 4.1-4.2 & 5.1-5.3) | |
| 6/23 | 6/23 | 5.4 | Graphing Polynomial Functions |
| 6/24 | 6/24 | 5.5 | Graphing Rational Functions |
| 6/25 | 6/25 | 5.6 | Solving Polynomial Equations |
| 6/26 | 6/26 | 6.1 | Exponential Equations |
| 6/27 | 6/27 | 6.2 | The Inverse of a Function |
| 6/28 | 6/29 | Exam 3 (Sections 5.4-5.6 & 6.1-6.2) | |
| 6/30 | 6/30 | 6.3 | Logarithms are Exponents |
| 7/01 | 7/01 | 6.4 | Properties of Logarithms |
| 7/02 | 7/02 | 6.5 | Common Logarithms and Natural Logarithms |
| 7/03 | 7/03 | 6.6 | Exponential Equations and Change of Base |
| 7/04 | 7/05 | 7.1 | Systems of Linear Equations in Two Variables |
| 7/06 | 7/06 | Exam 4 (Sections 6.3-6.6 & 7.1) | |
| 7/07 | 7/07 | 7.2 | Systems of Linear Equations in Three Variables |
| 7/08 | 7/08 | 7.5 | Matrix Solutions to Linear Systems |
| 7/09 | 7/10 | Final Exam | |

As shown in XYZ Homework, on the indicated dates all electronic assignments become available at 12:01am and are due 11:59pm. The Final Exam must be taken in person. See the First Day Handout for more information.