

Eastern Oregon University
Course Syllabus

Number of Course: MATH 070

Name of Course: Elementary Algebra

Catalog Description: This course is equivalent to first year high school algebra. The fundamental concepts of algebra include operations with Real Numbers, solving linear equations and inequalities, graphing equations and inequalities, introduction to functions, and solving systems of equations.

Credit Hours: 4

Required Texts or Suggested Materials:

Are available at: <http://eou.bncollege.com/>

Prerequisites: MATH 040 or equivalent.

Learning Outcomes:

GLO 1: Content Knowledge

Students will accurately apply the fundamental concepts of algebra including operations with real numbers, solving linear equations and inequalities, graphing linear equations and inequalities, linear functions and systems of linear equations.

GLO 3: Communication

The students will justify their mathematical thinking both verbally and symbolically. Students will apply mathematical vocabulary and symbolism properly.

GLO 4: Critical Thinking

Students will analyze and evaluate the multiple representations (verbal, graphical, tabular, contextual, and symbolic) of the fundamental concepts of first year algebra.

Course Requirements:

Cell Phone Policy: The ubiquitous cell phone! Using a cell phone or any internet/infrared-capable device for any purpose (texting, as a calculator, music, etc.) is not acceptable during class time. It is also considered rude. Use your cell phone outside of class, not inside the class.

Required Materials:

Graph paper notebook (for notetaking and assignments)

Pencil (not pen) and eraser

Note: Calculators will NOT be allowed

Grading Policies:

The overall course grade will be assigned based on the weighted formula applied to the student work using the following percentages.

Satisfactory 75 - 100%

- o $10\% \text{ Attendance/Participation} + 30\% \text{ Assignments} + 60\% \text{ Exams} \geq 75\%$
- Unsatisfactory $74\% \text{ or lower}$
- o $10\% \text{ Attendance and Participation} + 30\% \text{ Assignments} + 60\% \text{ Exams} < 74\%$

Course Grade is based on Weighted Formula: The course has three components each with its own weight within the overall course grade. The weighted formula will be applied to the points earned within each component as follows:

10% of course grade is based on Attendance and Participation

30% of course grade is based on Assignments

60% of course is based on Exams

The Grades program in Canvas will only show the scores on the exams. It will not calculate your current grade based on the weighted formula. Calculating your grade using the weighted formula is actually a great math problem that I expect you to do so I will not deprive you of the opportunity! There might even be an exam question about how to calculate a grade using a weighted formula.

Means of Assessment:

Class participation will assess GLO 1, 3, and 4.

Daily assignments will assess GLO 1, 3, and 4.

Exams will assess GLO 3 and 4

Brief Outline of Course:

The topics we will cover are listed below. We may not do all of them nor do them in order. Outside resources will also be used. Because each class is unique, I reserve the option of changing and rearranging as we go.

Review of Real Numbers

- o Symbols and Sets of Numbers
- o Fractions
- o Introduction to Variable Expressions and Equations
- o Adding Real Numbers
- o Subtracting Real Numbers
- o Multiplying and Dividing Real Numbers
- o Properties of Real Numbers

Equations, Inequalities, and Problem Solving

- o Simplifying Algebraic Expressions
- o Addition and Multiplication Properties of Equality
- o Solving Linear Equations
- o An Introduction to Problem Solving
- o Formulas and Problem Solving
- o Solving Linear Inequalities

Applications of Linear Equations

- o Reading Graphs and the Rectangular Coordinate System
- o Graphing Linear Equations
- o Intercepts
- o Slope and Rate of Change
- o Equations of Lines

- o Functions

Solving Systems of Linear Equations

- o Solving Systems of Linear Equations by Graphing

General Education Category and Outcomes:

University Writing Requirement Outcomes:

Writing Center Statements:

For on-campus courses

The Writing Center provides a place — physical or virtual — where every EOU writer can find an interested, responsive reader. Writing tutorials are free of charge for EOU's undergraduate and graduate students who are writing for any course at any level, or who are writing resumes, job letters, graduate applications, and more. Go to eou.mywconline.com to schedule an appointment in the Writing Center (Loso Hall 234).

For online or on-site courses

The Writing Center provides a place — physical or virtual — where every EOU writer can find an interested, responsive reader. Writing tutorials are free of charge for EOU students writing for any undergraduate course. Go to [EOU's eTutoring page](#) to submit a paper to a writing tutor.

For graduate courses

The Writing Center provides a place — physical or virtual — where every EOU writer can find an interested, responsive reader. Writing tutorials are free of charge for EOU students writing for any graduate course. Go to [EOU's eTutoring page](#) to submit a paper to a writing tutor. Click on [Graduate Students How To](#) for information about tagging your submission.

Classroom Decorum:

Academic Misconduct Policy:

Eastern Oregon University places a high value upon the integrity of its student scholars. Any student found responsible for an act of academic misconduct (including but not limited to cheating, unauthorized collaboration, fabrication, facilitation, plagiarism or tampering) may be subject to having his or her grade reduced in the course in question, being placed on probation or suspended from the University, or a combination of these. (Please see the Student Handbook online at <http://www.eou.edu/sse/student-handbook/>).

Accommodations/Students with Disabilities policy:

Any student who feels he or she may need an accommodation for any type of disability, must contact the Disability Services Office in Loso Hall, Room 234. Phone: 541-962-3081.

Disclaimer:

This standard syllabus provides only general information on the course. For those enrolled in the course a detailed syllabus will be provided by the Instructor at the beginning of the term. Please keep in mind that not all courses are offered every year. Consult Webster for scheduling information.

Date: 2018