MATH 12 0226 Basic Arithmetic Skills
FALL 2015
El Camino College
Department of Mathematics
Gerson Valle
MyMathlab Course ID: valle42809

Mission Statement:
El Camino College makes a positive difference in people's lives. We provide excellent comprehensive educational programs and services that promote student learning and success in collaboration with our diverse communities.

MATH 12 Basic Arithmetic Skills
3 Units
This introductory arithmetic course is designed to develop number and operation sense using whole numbers, fractions, decimals, and percents, as well as develop problem-solving skills. Topics include writing whole numbers and decimals in various forms, estimation, ratios, proportions, and applications.

Class time: MW 6pm – 8:05pm
Room: MBA 309
Email: gvalle@elcamino.edu
Phone: (310)900-1600 ext. 2436

Student Learning Outcomes
SLO #1 Application Problems
Students will be able to recognize addition, subtraction, multiplication, division, exponentiation, factoring and order of operations in a given context (word problem, data, diagram, etc.) involving non-negative real numbers to write corresponding mathematical expressions and solve authentic, real-world application problems.

SLO #2 Solving Equations and Manipulating Expressions
Students will be able to use numerical and symbolic representations to correctly perform operations (addition, subtraction, multiplication, division, exponentiation, factoring, and order of operations) on non-negative real numbers to simplify expressions.

SLO #3 Visual and Graphical Methods
A student completing Pre-Collegiate mathematics will use visual and graphical methods to represent and analyze information and to solve problems using non negative real numbers, including demonstrating correct ordering of values and testing reasonableness of solutions.

SLO #4 Articulating Mathematical Reasoning
A student completing Pre collegiate mathematics will verbally articulate (orally or in written form) the mathematical reasoning they used to solve a problem or analyze a situation.

Course Objectives
1. Read and write whole numbers and decimal numbers in standard, expanded, and written form.
2. Order a given set of numbers.
3. Use the order of operations to add, subtract, multiply and exponentiate whole numbers, fractions and decimals.

4. Use rounding techniques to estimate results of operations on whole numbers, fractions and decimals.

5. Use divisibility tests and prime factorization to reduce fractions to lowest terms and perform operations on fractions.

6. Convert rational numbers into decimals, fractions and percentages.

7. Solve various application problems requiring the use of ratios, proportions, and percentages.

**Text:** Basic Mathematical Skills with Geometry by Baratto & Bergman 9th ed.

**Grades:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Six Tests</td>
<td>540</td>
<td>54%</td>
</tr>
<tr>
<td>Final</td>
<td>200</td>
<td>20%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>60</td>
<td>6%</td>
</tr>
<tr>
<td>Homework</td>
<td>200</td>
<td>20%</td>
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</tbody>
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Normal grading scale will be used for final grades. 90% is an A, 80% is a B, 70% is a C, etc.

**Homework:**

Homework will be done online through MyMathlab. The class ID is valle42809. There are 6 sections, one for each test. You will get a percentage of points for homework depending on how many topics are finished per test. It is extremely important that you start homework from day one.

**Quizzes:**

There will be six quizzes given throughout the course that will cover the previous lectures. Quizzes will be worth 10 points each.

**Tests:**

There will be six tests for the course and a final on Wednesday, December 9th at 6pm. There will be no makeups for any reason for the final.
**Make-up Policy:**
There are **NO MAKEUPS** for any reason for any test or quiz, **even legitimate reasons**. I will be dropping the lowest test score. If you miss a test then that will be your dropped test. If you miss a second test then you will have a zero for that test.

**Academic Honesty Policy:**
El Camino College places a high value on the integrity of its student scholars. When an instructor determines that there is evidence of dishonesty in any academic work (including, but not limited to cheating, plagiarism, or theft of exam materials), disciplinary action appropriate to the misconduct as defined in BP 5500 may be taken. A failing grade on an assignment in which academic dishonesty has occurred and suspension from class are among the disciplinary actions for academic dishonesty (AP 5520). Students with any questions about the Academic Honesty or discipline policies are encouraged to speak with their instructor in advance.

**Calculators:**
There will be no calculators allowed in this course.

**Special Accommodations**
It is the policy of the El Camino Community College District to encourage full inclusion of people with disabilities in all programs and services. Students with disabilities who believe they may need accommodations in this class should contact the campus Special Resource Center as soon as possible. This will ensure that students are able to fully participate. As well one may contact the instructor privately to discuss your specific needs. The Special Resource Center is located in the southeast wing of the Student Services Center, (310) 660-3295. More guidelines for students with disabilities may be found on page 27 of 2013-2014 College Catalog or may visit their website at www.elcamino.edu/academics/src."