

OHLONE COLLEGE
Ohlone Community College District
OFFICIAL COURSE OUTLINE

I. Description of Course:

1. **Department/Course:** MATH - 172
2. **Title:** Mastering Math Skills: Whole numbers, decimals and Percentages
3. **Cross Reference:**
4. **Units:** 0.5

Lec Hrs:

Lab Hrs: 1.5

Tot Hrs: 27.00

5. **Repeatability:** Yes Times:3
6. **Grade Options:** Letter Grade, May Petition for Pass/No Pass (GP)

12. Catalog Description:

Students will refresh their knowledge of operations with whole numbers, decimals, and percentages and their applications. It is intended for students currently enrolled in Math 151 or Math 151AB who feel they will benefit from a review of this material.

13. Class Schedule Description:

Refresh your knowledge of how to use and apply decimals and percentages.

14. Counselor Information:

Students at any level who have difficulty with whole numbers, decimals, and percentages will benefit from enrolling in this course. It is a self-paced course, with students completing modules either through self-study and/or with help from the staff at the Math Learning Center.

II. Student Learning Outcomes

The student will:

1. Demonstrate proficiency in performing operations(+, -, *, /) with whole numbers, decimals and percentages without the use of a calculator.
2. Demonstrate proficiency at using a standard four-function calculator to solve problems involving whole numbers, decimals, and percentages.
3. Use whole numbers, decimals and percentages to solve real-world problems.

III. Course Outline:

- A. Perform operations with whole numbers, decimals, and percentages without a calculator.
 1. Multiplication and division of whole numbers, decimals, and percentages
 2. Addition and subtraction of whole numbers, decimals, and percentages
 3. Addition and subtraction of whole numbers, decimals, and percentages
 4. Combining multiple whole numbers, decimals, and percentages operations

- B. Perform operations with whole numbers, decimals, and percentages using a calculator.
- C. Apply the use of whole numbers, decimals, and percentages to word problems.

IV. Course Assignments:

A. Reading Assignments

- 1. Read sample material on how to perform each skill.

B. Projects, Activities, and other Assignments

- 1. Complete a sequence of practice problems for each topic. While different instructors may emphasize different learning methods, it is expected that all students will be proficient with both calculator and non-calculator methods.

C. Writing Assignments

- 1. none

V. Methods of Evaluation/Assessment:

- A. Assessment will be done through three exams and a comprehensive final.
- B. Each exam must be completed at an 85% success rate to proceed to the next exam.
Finishing the course also requires completion of the final exam at an 85% success rate.

VI. Methods of Instruction:

- A. Independent Study
- B. Computer Assisted Instruction

VII. Textbooks:

Recommended

Supplemental

- A. Staszko *Math Skills* 7th Edition, Kendall Hunt, 2008 ISBN: 978-0-7575-4612

VIII. Supplies: