



MONROE COUNTY
COMMUNITY COLLEGE

Course Outcome Summary

Standard Course

MATH 090 Basic Mathematics Skills

Course Information

Division	Science/Mathematics
Contact Hours	60
Total Credits	4

Prerequisites None

Course Description

Basic Mathematics Skills will provide instruction in mathematical operations and their applications, with early introduction to integers and algebraic concepts including solving linear equations and inequalities. This approach provides for students the necessary tools to succeed in developmental math and prepares them for future math courses. The content of the course includes operations with integers, ratio, proportion, percent, area, volume, and introduction to variables, algebraic concepts, and solutions to linear equations and inequalities. There is an emphasis on problem-solving skills, vocabulary comprehension, real-world applications and calculator fundamentals. Some topics must be completed without the use of a calculator. The purpose of the course is to prepare students for the transition from arithmetic to algebra.

This Basic Mathematics Skills course will be graded on a Pass/Fail mastery basis. **The Institutional credits earned in this course do not count toward graduation.* This course does not fulfill the math competency requirement. Internet access is mandatory.

Course Outcomes

In order to evidence success in this course, students will be able to:

1. Add, subtract, multiply, and divide signed numbers
2. Solve word problems involving ratio, proportion, percent, area, and volume
3. Write fractional notation for ratios
4. Determine whether two ratios are proportional
5. Solve proportions for the unknown quantity
6. Interconvert among decimal notation, fractional notation, and percent notation
7. Use a calculator to aid in performing calculations involving whole numbers, decimal fractions, ratio, proportion, and percents
8. Calculate mean, median, mode
9. Interconvert between the English system and the metric system
10. Simplify linear expressions
11. Solve linear equations and inequalities
12. Solve application problems involving linear equations

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