

NorthWest Arkansas Community College  
Division of Science and Mathematics

**Course Number and Title:** MATH 0011, Foundations of Workforce Math

**Catalog Description:** MATH 0011 Foundations of Workforce Math - (F, S, SUM) is a corequisite course for those students who do not meet the prerequisite for MTCM 1003. Topics include foundational math topics not already included in MTCM. Course can only be taken concurrently with MTCM 1003 and cannot be taken alone. Corequisite: MTCM 1003.

**Prerequisites:** None.

**Co-requisite:** MTCM 1003

**Credit hours/Contact hours/Load hours:** 3 credit hours, 3 contact hours, 3 load hours

**Method of Delivery:** WWW with classroom tutoring during class meetings held during first quarter of class.

**Target Audience/Transferability:** Students who do not meet the prerequisite for MTCM 1003

**Student Learning Outcomes:**

Upon successful completion of MATH 0011, students should be able to exhibit competency in the following the following areas, incorporating technology where applicable:

**\*Student Learning Outcomes - CORE:**

A student successfully completing MATH 0011 will demonstrate these primary competencies:

---

1. Perform operations on integers using the order of operations.
2. Simplify and evaluate variable expressions.
3. Perform operations on fractions, decimals, and percents.
4. Find the perimeter and area of rectangles.
5. Recognize number sets: compare magnitudes, graph on the real number line.
6. Convert units of measure (includes American and Metric systems)

MATH 0011 includes a required comprehensive final exam with an assessment of students' mastery of selected learning outcomes.

**Forms of Assessment:** Each instructor will include a set of departmental final exam questions on his or her final exam. These questions will be in direct support of the Student Learning Outcomes and will be graded according to a standard grading rubric. Department-wide results for these questions will be reported when final grades are submitted.

NorthWest Arkansas Community College  
Division of Science and Mathematics

**Coverage:**

Chapter	Section	Topic
1	1	Positive and Negative Integers.
	3	Add Positive and Negative Integers.
	4	Subtract Positive and Negative Integers.
	6	Multiply Positive and Negative Integers.
	7	Divide Positive and Negative Integers.
	8	Exponents and Order of Operations.
2	1	Understand Variables and Expressions.
	2	Simplify expressions.
4	1,2,3,4	Computation with Fractions
5	1,2,3,4,5	Computation with Decimals
7	1,2	Computation with Percents
3	1	Perimeter
	2	Area
1	2	Number Sets
4	1	Magnitude and Order
10	1	Graphing
8	1	U.S. and Metric System
	2	U.S and Metric System
	3	U.S. and Metric System

**Text:**

***Prealgebra and Introductory Algebra, 4/e Ready To Go MyMathLab Course***

Author(s): Hestwood, Diana | Hornsby, John | Lial, Margaret | McGinnis, Terry

Textbook ISBN-13: 9780321859228