

# North Central Michigan College

## NCMC MASTER COURSE SYLLABUS

Last Date Revised 3.14.12

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**INSTRUCTIONAL AREA: Liberal Arts**

**DEPARTMENT: Mathematics**

**ASSOCIATE DEAN: Samantha McLin**

**ORIGINATOR: Brian Goetz**

**DEAN OF INSTRUCTION: Christine Hammond, Ph.D.**

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**COURSE ALPHA/NUMBER: MATH 090 (Previously MTH 090, College Prep Math)**

**COURSE TITLE: Pre-Algebra**

**HOURS OF INSTRUCTION:**

Credit hours:4

Lecture:4

Lab: 0

Clinical:0

Variable Hours:0

Total Hours of Instruction:4

Total Contact Hours: 70.4

*(Total Contact Hours Formula: (lecture hours + lab hours + clinical hours) x 17.6*

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**CATALOG DESCRIPTION:** This course is designed for students who need to develop algebraic skills before taking Beginning/Intermediate Algebra (MATH 110) or Mathematical Reasoning (MATH 100). Topics covered include integers, simplifying variable expressions, solving linear equations, fractions, applications involving proportions and percents, and an introduction to graphing. Additional topics may be assigned by the instructor as deemed necessary for student success. Students will work independently on content until mastery is attained. This course is offered on a pass-fail-progress status and does not count toward graduation and will not transfer.

**PREREQUISITE(S):** COMPASS Reading score of 62 or above, ACT Reading score of 13 or above

**COREQUISITE(S):**

**GENERAL EDUCATION DISTRIBUTION AREA:**

Communications, Writing

Natural Science Group A

Communications, Communications

Natural Science Group B

Humanities Group A

Social Science Group A

Humanities Group B

Social Science Group B

Mathematics

Non Applicable

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**GENERAL EDUCATION OUTCOMES:**

Write and Speak Effectively

Think Critically & Analytically

Write & Speak Effectively and Think Critically & Analytically

Non Applicable

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**COURSE OBJECTIVES AND OUTCOMES:**

Upon completion of this course a successful student will be able to: Perform operations with integers and fractions, simplify algebraic expressions; solve linear equations; solve proportion and percent applications; read or create line, circle, and bar graphs.

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**METHODS OF INSTRUCTION:**

- Mini-lecture
  - Independent readings
  - Computer aided instruction/homework
  - Exercises
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**METHODS OF EVALUATION:**

- Quizzes
  - Homework
  - Unit Tests
  - Final Exam
  - Class attendance
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**REQUIRED TEXT AT TIME OF COURSE ADOPTION/REVISION:**

TEXTS: MyMathLab Access Code

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**Reasonable accommodations can be provided for students with documented disabilities.**

**Please contact Learning Support Services for assistance: (231)348-6817.**

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**SUGGESTED TIME ALLOWANCE AND SEQUENCE OF INSTRUCTION:**

*(List general content description of what is being covered each week)  
(If you need more than one line for a week, hit enter at the end of row; second line will begin)*

WEEK 1	Integers; adding subtracting
WEEK 2	Integers; multiplying, dividing, order of operations
WEEK 3	Simplifying variable expressions
WEEK 4	Simplifying variable expressions
WEEK 5	Solving linear equations
WEEK 6	Solving linear equations
WEEK 7	Fractions; simplifying, multiplying, dividing
WEEK 8	Fractions; addition and subtraction, order of operations
WEEK 9	Fractions; simplifying complex fractions and solving equations
WEEK 10	Ratios, Rates, Proportions
WEEK 11	Percents
WEEK 12	Percents
WEEK 13	Graphing; reading circle, bar, and line graphs
WEEK 14	Graphing; solutions of linear equations
WEEK 15	Review
WEEK 16	Final Exam

APPROVED FOR ADOPTION/REVISION BY THE CRD/AP COMMITTEE ON \_\_\_03/21/12