North Central
Michigan College

NCMC MASTER COURSE SYLLABUS

Last Date Revised __November 2011____

INSTRUCTIONAL AREA: Liberal Arts **DEPARTMENT: Mathematics**

ASSOCIATE DEAN: Samantha McLin **ORIGINATOR: Brian Goetz**

DEAN OF INSTRUCTION: Christine Hammond, Ph.D.

COURSE ALPHA/NUMBER: MATH 080

COURSE TITLE: Basic Mathematics

HOURS OF INSTRUCTION:

Credit hours:3
Lecture:3
Lab: 0
Clinical:0
Variable Hours:0
Total Hours of Instruction:3
Total Contact Hours:52.8
(Total Contact Hours Formula: (lecture hours + lab hours + clinical hours) x 17.6

CATALOG DESCRIPTION: This course is designed for students who need a review of operations with whole numbers, fractions, and decimals. Further study will include applications of ratios, rates, and percentages. After diagnostic assessment and/or consultation with the course instructor, an individualized study plan will be developed to meet each student's needs. 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. While the course is designed to prepare students to take Pre-Algebra (MATH 090), advanced students may be given the opportunity to test into Beginning/ Intermediate Algebra (MATH 110) through additional assignments.

PREREQUISITE(S): COMPASS Reading score of 62 or above and ACT Reading score of 13 or above.

COREQUISITE(S):

GENERAL EDUCATION DISTRIBUTION AREA:

___Communications, Writing
___Communications, Communications
___Humanities Group A
___Humanities Group B
___Mathematics
___Natural Science Group A
___Natural Science Group B
___Social Science Group A
___Social Science Group B
_X_Non Applicable

GENERAL EDUCATION OUTCOMES:

___Write and Speak Effectively
___Think Critically & Analytically
___Write & Speak Effectively and Think Critically & Analytically
_X_Non Applicable

COURSE OBJECTIVES AND OUTCOMES: Upon completion of this course a successful student will be able to: Demonstrate proficiency in operations on whole numbers, fractions, and decimals; Solve applications using ratios, rates, proportions, and percentages.

METHODS OF INSTRUCTION:

- Mini-lectures
- Independent readings
- Computerized homework/lectures
- Exercises

METHODS OF EVALUATION:

- Quizzes
- Homework
- Unit Tests
- Final Exam
- Class attendance

REQUIRED TEXT AT TIME OF COURSE ADOPTION/REVISION:

TEXTS: Basic Mathematics with MyMathLab, 1st edition, by Goetz/Smith/Tobey, Pearson Higher Ed.

Reasonable accommodations can be provided for students with documented disabilities.

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

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	Whole Numbers ; Place value and rounding
WEEK 2	Whole Numbers; Addition, subtraction, multiplication, division
WEEK 3	Whole Numbers; order of operations, properties of whole numbers including common multiples and factors, applications
WEEK 4	Fractions; Simplifying
WEEK 5	Fractions; Multiplying and Dividing
WEEK 6	Fractions; Addition and Subtraction
WEEK 7	Fractions; Order of operations
WEEK 8	Fractions; mixed numbers
WEEK 9	Decimals; place value, rounding, adding, subtracting, multiplying, dividing
WEEK 10	Decimals; order of operations, applications
WEEK 11	Ratios/Rates; ratios and rates
WEEK 12	Ratios/Rates; proportions and applications
WEEK 13	Percents; converting between fractions, decimals and percents
WEEK 14	Percents; applications
WEEK 15	Review
WEEK 16	Final Exam

APPROVED FOR ADOPTION/REVISION BY THE CRD/AP COMMITTEE ON _02/01/12___