



North Central Michigan College Master Course Syllabus

PART 1:

Course Name: Pre-Algebra I

Course Number: MATH 093

Credit Hrs. 2 Lecture Hrs. 2 Lab Hrs. 0 Clinical Hrs. 0 Variable Hrs. 0

Total Hours of Instruction: 2 Total Contact Hours: 35.2
(Total Contact hour's formula: (lecture hrs. + lab hrs. + clinical hrs) x 17.6)

Course Description:

Together, MATH 093 and MATH 094, are designed for students who need to develop algebraic skills before taking Beginning/Intermediate Algebra (MATH 110) or Quantitative Reasoning Preparation (MATH 108). Topics covered include integers, simplifying variable expressions, and solving linear equations. Additional topics may be assigned by the instructor as deemed necessary for student success. Students will work independently on content until mastery is attained. Enrollment in this course requires concurrent enrollment in MATH 094. This course is offered on a pass-fail status and does not count toward graduation and will not transfer.

Prerequisite (s): Placement in this course is determined by ACT, SAT and/or North Central Assessment/Placement scores.

Co-requisite (s): MATH 094

Course Objectives:

- Perform operations with integers and fractions.
- Simplify algebraic expressions.
- Solve linear equations.

Reasonable accommodations can be provided for students with documented disabilities. Please contact Learning Support Services to arrange for these (231)348-6687 or (231)348-6817, Room 533 SCRC.



North Central Michigan College Master Course Syllabus

PART 2:

Course Objectives and Linked Lumina DQP Outcomes

See **PART 3** of this syllabus for the complete language of each Lumina DQP outcome.

*Please identify the Lumina DQP outcome(s) supported by the course objectives. List each course objectives (from **PART 1**), followed by the corresponding Lumina DQP Outcome number(s) in parentheses.*

- N/A



North Central Michigan College Master Course Syllabus

Suggested Methods of Instruction:

Mini-lecture, independent readings, computer aided instruction/homework and exercises.

Suggested Methods of Assessment and Evaluation:

Quizzes, homework, unit tests, final exam, and class attendance.

Adopted Text at Time of Course Adoption/Revision:

MyMathLab Access Code

OPTIONAL SUPPLEMENTARY MATERIALS:

Topics Covered During the Semester:

Sequence of topics and time allowance are at the discretion of the instructor

- Week 1: Integers; adding subtracting
- Week 2: Integers; adding subtracting
- Week 3: Integers; multiplying, dividing, order of operations
- Week 4: Integers; multiplying, dividing, order of operations
- Week 5: Fractions
- Week 6: Fractions
- Week 7: Fractions
- Week 8: Fractions
- Week 9: Fractions
- Week 10: Simplifying variable expressions
- Week 11: Simplifying variable expressions
- Week 12: Simplifying variable expressions
- Week 13: Solving linear equations
- Week 14: Solving linear equations
- Week 15: Solving linear equations
- Week 16: Solving linear equations

Part 1 & Part 2 approved by CRDAP on: 02 03 17

Part 2 approved by AD:

Date:

Part 2 approved by CRDAP Chair:

Date:

Rev02/15



North Central Michigan College

Master Course Syllabus

PART 3:

LUMINA DQP OUTCOMES – Use this reference sheet for **PART 2** of Master Course Syllabus.

Specialized Knowledge

1. Describes the scope and principal features of the field of study, citing at least some of its core theories and practices, and offers a similar explication of at least one related field.
2. Illustrates contemporary terminology used in the field.
3. Generates substantially error-free products, reconstructions, data, juried exhibits or performances as appropriate to the field.

Broad Integrative Knowledge

4. Describes how existing knowledge or practice is advanced, tested and revised
5. Describes and examines a range of perspectives on key debates and their significance both within the field and in society.
6. Illustrates core concepts of the field while executing analytical, practical or creative tasks.
7. Selects and applies recognized methods of the field in interpreting characteristic discipline-based problems.
8. Assembles evidence relevant to characteristic problems in the field, describes the significance of the evidence, and uses the evidence in analysis of these problems.
9. Describes the ways in which at least two disciplines define, address and interpret the importance of a contemporary challenge or problem in science, the arts, society, human services, economic life or technology.

Intellectual Skills – Analytic Inquiry

10. Identifies, categorizes and distinguishes among elements of ideas, concepts, theories and/or practical approaches to standard problems.

Intellectual Skills – Use of Information Resources

11. Identifies, categorizes, evaluates and cites multiple information resources necessary to engage in projects, papers or performance in his or her program.

Intellectual Skills – Engaging Diverse Perspectives

12. Describes how knowledge from different cultural perspectives would affect his or her interpretations of prominent problems in politics, society, the arts and/or global relations.

Intellectual Skills – Communication Fluency

13. Presents accurate calculations and symbolic operations, and explains how such calculations and operations are used in either his or her specific field of study or in interpreting social and economic trends.
14. Presents substantially error-free prose in both argumentative and narrative forms to general and specialized audiences.

Applied Learning

15. Describes in writing at least one substantial case in which knowledge and skills acquired in academic settings are applied to a challenge in a non-academic setting; applies that learning to the question; and analyzes at least one significant concept or method related to his or her course of study in light of learning outside the classroom.
16. Locates, gathers and organizes evidence on an assigned research topic addressing a course-related question or a question of practice in a work or community setting; offers and examines competing hypotheses in answering the question.

Civic Learning

17. Describes his or her own civic and cultural background, including its origins and development, assumptions, and predispositions.
18. Describes diverse positions, historical and contemporary, on selected democratic values or practices, and presents his or her own position on a specific problem where one or more of these values or practices are involved.
19. Takes an active role in a community context (work, service, co-curricular activities, etc.), and examines the civic issues encountered and the insights gained from the community experience.

The Degree Qualifications Profile was adopted by CRDAP: April 11, 2012