

Math 012A

Instructor: Tony DiMauro

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Textbook: Beginning Algebra, 7th Edition Authors: Aufmann, Barker and Lockwood

Publisher: Houghton Mifflin Company, 2008 - bookstore: <http://www.nutextdirect.com>

Course description: First of a two-course sequence covering methods of simplifying formulas and expressions, solving equations and inequalities, operating with exponents, and translating statements to symbols. Calculator use is highly recommended. This beginning course will examine the basics of algebra and its concepts and will formulate the mathematical foundation for future mathematics courses.

Course Goals: This is the first of a two-course sequence covering basic algebra; algebraic expressions, solutions of linear equations and inequalities; operations with exponents; equations of straight lines. Must have calculator. Students must possess a firm mastery of signed numbers, percents, use of parenthesis, and basic elements of arithmetic in order to be successful in MTH 012-I. This beginning course will examine the basics of algebra and its concepts and will formulate the mathematical foundation for future mathematics courses.

Particular emphasis throughout the course will be in learning how to set up and solve "word problems." When a particular event can be represented mathematically from two different points of view, then it is possible to equate the two representations. Solving the equation reveals more about the event than was known previously. This is the power in math. Examples from everyday experience will be used to emphasize this logical approach to problem solving.

Learning Outcomes:

Demonstrate mastery of the properties of our basic number system.

Demonstrate a mastery of signed numbers, percents, ratio/proportion, use of order of operations including grouping symbols in algebra.

Learn to solve equations and inequalities.

Simplify rational expressions.

Solve standard word problems.

Course Requirements

Name of Assignment	Points for each Assignment	Total Points	Percentage
8 Nightly ClassWork Assignments	10	80	13%
8 Homework Assignments	20	160	27%
8 Quizzes	20	160	27%
2 Tests	100	200	33%
	Total Points	600	100%

*Late work accepted with a documented emergency. Please be at class each night. Mathematics is strongly sequential in form. If you miss important information you can get caught behind so you will need to catch up.

*Students receiving this grade in a course that is required for his/her degree program must repeat the course.

Grading: All grades above 75% will earn a Satisfactory Grade. All grades below will earn an Unsatisfactory Grade.

Math 012A - Nightly Schedule of Events

Class time is at 5:30 pm to 10 pm each night with a dinner break at 7:30 pm

1. Tuesday March 3, 2009

Introductions, History of Mathematics,

Chapter 1 Sections: 1, 2, 3 Introduction to Integers, Operations with Integers, Rational Numbers
ClassWork 1 and Quiz 1 due at the end of class. (I will assign the numbers for HW1)

2. Thursday March 5, 2009

Homework 1: Ch 1 Sec 1, 2. Due at the beginning of the class.

Chapter 1 Sections: 4, 5 Exponents and Geometry

ClassWork 2 and Quiz 2 (30 minutes) due at the end of class. (I will assign the numbers for HW2)

3. Tuesday March 10, 2009

Homework 2: Ch 1 Section 3, 4, 5. Due at the beginning of class.

Chapter 2 Sections: 1, 2 Evaluating and Simplifying Variable Expressions

ClassWork 3 and Quiz 3 (30 minutes) due at the end of class. (I will assign the numbers for HW3)

4. Thursday March 12, 2009

Homework 3: Ch 2 Sec 1, 2. Due at the beginning of class.

Chapter 2 Sections: 2, 3 Verbal-Variable Expressions - **Chapter 3** Sections: 1, 2 Intro to Equations

ClassWork 4 and Quiz 4 (30 minutes) due at the end of class. (I will assign the numbers for HW4)

5. **Saturday** March 14, 2009 (8-12:30 coffee break at 10 am)

Homework 4: Ch 2 Sec 3 and Ch 3 Sec 1, 2. Due at the beginning of class.

Chapter 3 Sections: 2, 3 General Equations and Inequalities

ClassWork 5 and **Test 1** due at the end of class (one hour). (I will assign the numbers for HW5)

6. Tuesday March 17, 2009

Homework 5: Ch 3 Sec 2, 3. Due at the beginning of class.

Chapter 4 Sections: 1, 2, 3, 4 Translating Equations, Geometry and Marketing Problems

ClassWork 6 and Quiz 5 (30 minutes) due at the end of class. (I will assign the numbers for HW6)

7. Thursday March 19, 2009

Homework 6: Ch 4 Sec 1, 2, 3, 4 Due at the beginning of class.

Chapter 4 Sections: 5, 6, 7, 8 Investment, Mixture, Motion and Inequalities Problems

ClassWork 7 and Quiz 6 (30 minutes) due at the end of class. (I will assign the numbers for HW7)

8. Tuesday March 24, 2009

Homework 7: Ch 4 Sec 5, 6, 7, 8. Due at the beginning of class.

Chapter 5 Sections: 1, 2, 3 Coordinate Systems, Straight Lines and Slopes

ClassWork 8 and Quiz 7 (30 minutes) due at the end of class. (I will assign the numbers for HW8)

9. Thursday March 26, 2009

Homework 8: Ch 5 Sec 1, 2, 3. Due at the beginning of class.

Chapter 5 Sections: 4, 5, 6 Equations of Lines, Functions and Graphing Inequalities.

ClassWork 9-10 and Quiz 8 (30 minutes) due at the end of class.

10. **Saturday** March 28, 2009 (1-5:30 coffee break at 3 pm)

Review for Comprehensive Test 2, **Test 2** (2 hours)

Plagiarism: Plagiarism is the presentation of someone else's ideas or work as one's own. Students must give credit for any information that is not either the result of original research or common knowledge. If a student borrows ideas or information from another author, he/she must acknowledge the author in the body of the text and on the reference page. Students found plagiarizing are subject to the penalties outlined in the Policies and Procedures section of the University Catalog, which may include a failing grade for the work in question or for the entire course. The following is one of many websites that provide helpful information concerning plagiarism for both students and faculty: <http://www.indiana.edu/~wts/pamphlets/plagiarism.shtml>

Ethics: Ethical behavior in the classroom is required of every student. The course will identify ethical policies and practices relevant to course topics.

Technology: Students are expected to be competent in using current technology appropriate for this discipline. Such technology may include word processing, spreadsheet, and presentation software. Use of the internet and e-mail may also be required.

Diversity: Learning to work with and value diversity is essential in every class. Students are expected to exhibit an appreciation for multinational and gender diversity in the classroom.

Civility: As a diverse community of learners, students must strive to work together in a setting of civility, tolerance, and respect for each other and for the instructor. Rules of classroom behavior (which apply to online as well as onsite courses) include but are not limited to the following: Conflicting opinions among members of a class are to be respected and responded to in a professional manner. Side conversations or other distracting behaviors are not to be engaged in during lectures, class discussions or presentations. There are to be no offensive comments, language, or gestures

Students with Disabilities: Students seeking special accommodations due to a disability must submit an application with supporting documentation, as explained under this subject heading in the General Catalog. Instructors are required to provide such accommodations if they receive written notification from the University.

Writing Across the Curriculum: Students are expected to demonstrate writing skills in describing, analyzing and evaluating ideas and experiences. Written reports and research papers must follow specific standards regarding citations of an author's work within the text and references at the end of the paper. Students are encouraged to use the services of the University's Writing Center when preparing materials.

The following website provides information on APA, MLA, and other writing and citation styles that may be required for term papers and the like: <http://www.nu.edu/LIBRARY/ReferenceTools/citations.html>

National University Library: National University Library supports academic rigor and student academic success by providing access to scholarly books and journals both electronically and in hard copy.

URL: <http://www.nu.edu/library>. Contact the Library: RefDesk@nu.edu
(858) 541-7900 (direct line) 1-866-NU ACCESS x7900 (toll free)

Use the Library Training Tools (on the Library Homepage) for additional help.

I Incomplete A grade given at the discretion of the instructor when a student who has completed **at least two-thirds of the course class sessions** and is unable to complete the requirements of the course because of uncontrollable and unforeseen circumstances. The student must convey these circumstances (preferably in writing) to the instructor prior to the final day of the course. If an instructor decides that an "Incomplete" is warranted, the instructor must convey the conditions for removal of the "Incomplete" to the student in writing. A copy must also be placed on file with the Office of the Registrar until the "Incomplete" is removed or the time limit for removal has passed. An "Incomplete" is not assigned when the only way the student could make up the work would be to attend a major portion of the class when next offered. An "I" that is not removed within the stipulated time becomes an "F." No grade points are assigned. The "F" is calculated in the grade point average.

W Withdrawal Signifies that a student has withdrawn from a course after beginning the third class session. **Students who wish to withdraw must notify their admissions advisor before the beginning of the sixth class session in the case of graduate courses, or before the seventh class session in the case of undergraduate courses.** Instructors are not authorized to issue a "W" grade.