

Northeastern State University
College of Mathematic, Science and Nursing
Department of Mathematics
Tahlequah, OK

INSTRUCTOR:

Mr. Karl Kruczek, Instructor. Office: Science 232
Office Hours: See my NSU Faculty Web page.
Telephone: 918-456-5511 ext. 3031
FAX: 918-458-2325
E-mail: kruczek@.nsuok.edu

COURSE TITLE AND NUMBER:

MATH 0123 - Elementary Algebra

CLASS DAY & TIME:

MWF 11:00 - 11:50 am
TuTh 5:30 - 6:45 pm

PREREQUISITES:

None

CATALOG DESCRIPTION OF COURSE:

A course for students with little or no previous algebra background. Included topics are signed numbers, exponents, order of operations, factoring, algebraic fractions, linear equations and inequalities, word problems and percents. No college credit.

COURSE PURPOSE:

This is a remedial course designed to prepare students for Intermediate Algebra. It has been designated as a course for students needing to satisfy a deficiency in Mathematics. It is review of basic algebra concepts. Topics covered in this course can be found in the Catalog Description of the Course. As shown above.

EXPECTED COURSE OUTCOMES:

The student will be expected to achieve the following objectives:

1. Identify and graph , on a number line, sets of real umbers
2. Understand the meaning and effects of operations on rational and real numbers.
3. Write algebraic expressions and evaluate them using the order of operations.
4. Identify properties of real numbers.
5. Solve linear equations and solve formulas for specified variables.
6. Analyze application problems, solve them, and state the conclusions.
7. Interpret and graph linear equations.
8. Perform arithmetic operations on polynomials.

9. Evaluate expressions involving integer exponents.
10. Factor polynomials using various methods.

INSTRUCTIONAL MATERIALS: (Required Textbook)

Gustafson, David R. and Peter D. Frisk. *Beginning and Intermediate Algebra, An Integrated Approach* (5th edition). Pacific Grove, California: Brooks and Cole Publishing Company, 1999.

INSTRUCTIONAL PROCEDURES:

The expected course outcomes will be realized through a variety of instructional strategies. Those strategies include, but are not limited to, the following: lecture, expository-discussion, demonstration, inquiry, and group activities. The instructor also will integrate appropriate multi-media technology.

Elementary Algebra

I. Real Numbers and Their Basic Properties

1. Real Numbers and Their Graphs
2. Fractions
3. Exponents and Order of Operations
4. Adding and Subtracting Real Numbers
5. Multiplying and Dividing Real Numbers
6. Algebraic Expressions
7. Properties of Real Numbers

Major Examination #1

II. Equations and Inequalities

1. Solving Equations by Addition and Subtraction
2. Solving Equations by Multiplication and Division
3. Solving More Complicated Equations
4. Simplifying Expressions to Solving Equations
5. Applications of Equations
6. Formulas

Major Examination #2

III. Graphing and solving Systems of Equations and Inequalities

1. The Rectangular Coordinate System
2. Graphing Linear Equations

IV. Polynomials

1. Natural-Number Exponents
2. Zero and Negative-Integer Exponents
3. Scientific Notation

Major Examination #3

IV. Polynomials

4. Polynomials
5. Adding and Subtracting Polynomials
6. Multiplying Polynomials

V. Factoring Polynomials

1. Factoring Out the Greatest Common Factor
2. Factoring by Grouping
3. Factoring the Difference of Two Squares
4. Factoring Trinomials with Lead Coefficients of 1

Major Examination #4

Final Examination

STUDENT PERFORMANCE ACTIVITIES: (Attendance/Punctuality)

Regular class attendance is required. . Failure to regularly attend any zero level course may result in an Administrative Withdrawal (AW) from the course. This AW may affect your eligibility for financial aid, athletics and veterans benefits. Consult your instructor or the NSU catalog for the complete AW Policy. Any student with perfect attendance for any testing period will receive five points on their exam. Any student going to the tutor during a testing period will receive 1 point per hour spent there, up to 5 points maximum on their exam. Plan to get notes and handouts from other students if you are unable to attend a class. Students are not permitted to leave and return to class during a class period. Students who leave or arrive after roll has been taken must notify the instructor. Students are not permitted to bring food to class. No visitors without instructor's prior consent. The student may seek assistance from the Mathematics Department tutor, SC 264, or in the Student DevelHaskell Annex.

EVALUATION OF STUDENT ACHIEVEMENT:

Four 100 point exams, plus a comprehensive final, will be administered. No make up exams will be administered. Students who miss an exam or exams may count their score on the comprehensive final for one missed exam. Students who arranged their other activities around test schedules and complete each exam when administered will be allowed to replace their lowest exam score with the score on their comprehensive final. Grades will be computed on the following scale:

A: 90% - 100%

B: 80% - 89%

C: 70% - 79%

F: 0% - 69%

of the "HIGH" total. The "HIGH" total is found by adding the highest score made on each exam. Students are advised that the last date to drop a course with an automatic "W" will be April 15th, 2009. The last day to drop a single class or completely withdraw from NSU is May 8th, 2009. A "W" or "F" will be assigned depending if the student was passing or failing at the time of withdrawal.

ADA COMPLIANCE:

If any member of the class feels that he/she has a disability and needs special accommodations of any nature whatsoever, the instructor will work with you and the University's Office of Student Affairs to provide reasonable accommodations to ensure that you have a fair

opportunity to perform in this class. Please advise the instructor of such disability and the desired accommodations at the first class attended.

INCLEMENT WEATHER / DISASTER POLICY:

The following are basic premises for the inclement weather policy at Northeastern State University:

1. Classes are expected to be held if at all possible.
2. It is the student's responsibility to receive the information when weather is questionable.
3. Neither students nor faculty are expected to risk life or limb.
4. Faculty members are obligated to hold classes if the University is not closed, unless the faculty member is unable to get to campus.

Policy: During times of inclement weather, decisions concerning day classes will be made by 6:00 a.m. in order for the media to be notified and for students to receive the announcement before they leave home. Decisions concerning night classes will be made by 3:00 p.m.

The following media will be notified regarding closing of the campus:

Radio Stations:

KRMG 740 AM	Tulsa
KAYI 107 FM	Tulsa
KTLQ 1350 AM	Tahlequah
KEOK 102 FM	Tahlequah
KBIX 1490 AM	Muskogee
KMMY 97 FM	Muskogee
KVOO 1170 AM	Tulsa

Television Stations:

KJRH Channel 2	Tulsa
KOTV Channel 6	Tulsa
KTUL Channel 8	Tulsa
KFSM Channel 5	Fort Smith
Cable Channel 96	Tahlequah

The automated attendant message on 918-456-5511 will be modified to include information concerning campus operations during inclement weather.