

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

INSTRUCTOR:

Karl Kruczek. Office: Haskell Hall 110
Office Hours: MWF 10:00 a.m - 10:50; TuTh 8:30 p.m.-10:50 ; and by appointment at other times.
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COURSE TITLE AND NUMBER:

CLASS DAY & TIME:

MATH 0133 - Intermediate Algebra

MWF 10:00 - 10:50 p.m.

MWF 2:00 - 2:50 pm

PREREQUISITES:

A score between 44 and 74 on the CPT placement test or a grade of C or higher in Math 0123 or an ACT of 17 or 18.

CATALOG DESCRIPTION OF COURSE:

A course for students that need to review their algebra or need to satisfy a high school deficiency. Included in the course is a brief review of topics from Elementary Algebra, radicals, rational exponents, factoring, rational expressions, linear equations, and inequalities, absolute value, complex numbers, and quadratic equations. High school deficiency in mathematics may be satisfied by the successful completion of this course. No college credit.

COURSE PURPOSE:

This course has been designated as a course for students needing to review basic algebra concepts. It is an overview of radicals, rational exponents, factoring, rational expressions, linear equations and inequalities, absolute value, complex numbers, quadratic equations, and applications.

EXPECTED COURSE OUTCOMES:

The student will be expected to achieve the following objectives:

1. Recognize and generate equivalent forms for simple algebraic expressions and solve linear equations
2. Examine mathematical relationships using inequalities
3. Use tables and graphs as tools to interpret expressions and inequalities
4. Compare and contrast the properties of numbers and number systems
5. Understand the meaning and effects of operations on rational and real numbers

6. Use factors, multiples, prime factorization, and relatively prime numbers to solve problems
7. Understand complex numbers as solutions to quadratic equations
8. Employ squaring and finding square roots to simplify computations and solve problems
9. Understand and use ratios and proportions to represent quantitative relationships
10. Recognize and create shapes that are congruent and similar

INSTRUCTIONAL MATERIALS: (Required Textbook)

Mackey and Feldman. *Algebra: An Interactive Modular Approach*, (4th edition). Harcourt College Publishers, 2001.

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, group activities and interactive modular algebra.

Intermediate Algebra

Module I. Arithmetic Operations

TEST DEADLINE- Friday January 24, 2003

Module II. Variables and Exponents

TEST DEADLINE- Friday February 7, 2003

Module III. Operations on Polynomials

TEST DEADLINE- Friday February 21, 2003

Module IV. Equations

TEST DEADLINE- Friday March 14, 2003

Module V. Cartesian Coordinate System

TEST DEADLINE- Friday April 11, 2003

Module VI. Inequalities and Application

Worksheet Deadline- Friday April 18, 2003

Module VII. Modular Final Exam

TEST DEADLINE- Friday May 2, 2003

STUDENT PERFORMANCE ACTIVITIES: (Attendance/Punctuality)

Regular class attendance is required. The instructor reserves the right to lower students grade one level for each occurrence of three absences. 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. 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 or drink to class. No visitors without instructor's prior consent. The student may seek assistance from the Mathematics Department tutor, SC125B, and/or in Haskell Hall, Room 202.

EVALUATION OF STUDENT ACHIEVEMENT:

Computer Work: The course consists of completing **six** modules. For each module the student must demonstrate an understanding of the concepts and techniques explained in the text by answering correctly at least **90%** of the questions. Once this is done the student is allowed to work on the practice problems for the module. The student may try individual problems as many times as necessary in order to work them properly. A **Guided Tour** is provided with each problem as an aid to solving the problems.

Testing Procedure A student becomes eligible to take a test only after correctly working every problem at least once for every module. To take a test the student brings their student disk to the computer lab, Net 307 or Sci 105, where lab personnel will verify they have done the Questions and Problems for that module. Students **must** have their student ID with them. The student will then take the test on the lab computers.

You are encouraged to avoid the rush and take the tests early. If you wait until the last day, the room may be full and you will be turned away.

Five 100 point exams and a 200 point comprehensive modular final, will be administered. In class graded student quizzes/homework and attendance will count for 100 points. Students must take the CPT test during the final exam time on Monday, December 13, 9am which will also count as 100 points. **Failure to take the CPT will result in a final grade of F.** No make up exams will be administered. Students must complete the exam module by the module test deadline or they receive the grade of zero. 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:

Grades:	Five one hour module exams.....500 points
	Module 6/Notebook/attendance.....100 points
	CPT exam.....100 points
	Final module exam.....200 points

The following grading scale will be used:

A: 90% - 100%
B: 80% - 89%
C: 70% - 79%
F: 0% - 69%

Students are advised that the last date to drop a course with an automatic “W” will be April 11, 2003. The last day to drop a single class or completely withdraw from NSU is May 2, 2003. 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.