

NORTHEASTERN ILLINOIS UNIVERSITY

**Developmental Mathematics Program Math 092: Intermediate Algebra,
Standards & Policy: El Centro / Mr. Gonzalez**

EL CENTRO TELEPHONE: 773-442-4080 (Carefully Leave Message)

TEXTBOOK: "Intermediate Algebra", 10th Edition, 2007, by Marvin Bittinger,
Addison Wesley, ISBN: 0-321-30584-1.

PREREQUISITES

The prerequisite for MATH 092, Intermediate Algebra is a MATH ACT score between 18 to 21, or placement from the NEIU Math Placement Test, or MATH 09, Basic Algebra, with a grade of C or higher. Be advised that the zero digit in 091 means that this course is not for graduation credit. However, the grade is used in calculating your grade point average.

COURSE DESCRIPTION

Topics include linear equations and inequalities, systems of linear equations, slope and equations of a line, linear functions, operations on polynomials and rational expressions, rational equations, radical expressions and equations, complex numbers, and quadratic functions and equations,

COURSE CORE OBJECTIVES

MATH 092, Intermediate Algebra, develops the concepts, quantitative abilities, and writing skills for success in college mathematics. Calculator type and use is limited in this course. The student will be able to demonstrate the following core mastery skills without the use of technology at the conclusion of the course.

- Solve practical problems using linear equations.
- Solve linear inequalities.
- Interpret slope and the equations of line to linear functions and models.
- Write and compute polynomial, rational, and radical expressions.
- Solve quadratic equations with real and complex solutions.
- Apply the geometry and equations of the quadratic function including concavity of the parabola, vertex, and intercepts to examples and real problems.
- Apply the definition and properties of logarithms to examples and problems.

REQUIRED STUDY PRACTICES

Two separately bound notebooks are required, one for class notes and handouts, while the other is for homework. Homework must be documented by step by step written solutions. Your notebook also needs to show coherent organization, as well as careful attention to main concepts, definitions, examples, and vocabulary. Bring your notebooks to every class. Both notebooks will be collected on test days. Quality of the class notebook will be reflected by ten test points on each test. Homework notebook averaged grade will count as unit test score. A scientific calculator is allowed on the last three unit tests. TI 30X IIS is recommended. Graphing Calculators, TI 82, TI 83, etc. are not allowed.

NORTHEASTERN ILLINOIS UNIVERSITY

Math 092: Intermediate Algebra

Mr. Gonzalez

Standards & Policy

COURSE EVALUATION: GRADING

There will be six unit grades consisting of five tests and the homework average. The final grade will be the average of these scores with no test score dropped. The grading scale is:

100-90 = A, 89-80 = B, 79-70 = C, 69-65 = D, 64-0 = F.

If a student knows that he/she is going to miss an exam, the instructor must be notified in writing at least one week prior to the test date and request an alternate date which must be before the scheduled date. A student must notify the instructor by e-mail within 24 hours of a missed exam in order to receive consideration for an excused absence. The student must document in writing the reason for the test absence. Failure to provide documentation will be recorded as a test grade of zero for that unit. There are no make-up tests. If an excused absence is granted by the instructor, the cumulative exam during the final schedule will replace the missing test score. If a student misses two exams, a withdrawal from class is recommended. Incompletes are only given for serious reasons and requests must be documented. Students must be passing with a grade of 70 or more to receive consideration for an incomplete.

If a student writes all five unit tests, the cumulative exam score scheduled during the final exam will replace the lowest unit score if the final exam score is higher. The homework grade is not replaceable.

GETTING HELP

Meet with your instructor during his / her office hours. Your instructor is the first and foremost learning resource. The Math Lab is located in the 4th Floor of the Library. Michael Martindale is the Lab Supervisor, e-mail: m-martindale@neiu.edu, telephone number: 773- 442-5769. The Lab offers tutoring, instructional software, and math web sites. Thomas Blackburn is Math Development Coordinator, Office: Science S 204 E, e-mail: t-blackburn1@neiu.edu, telephone: (773) 442-5766.

WITHDRAWAL FROM CLASS

Students are responsible for knowing their current test average and if below 70 at Mid-Term should consider withdrawal from the class. See your Instructor and your Academic Advisor for further information prior to the Withdrawal Date. Only students can withdraw from class by NEIU/PORT Registration.

CLASS REQUIREMENTS & MANAGEMENT

Students are expected to be on time and prepared for each class. Class attendance is required. Two Final Grade Points will be deducted for each unexcused absence after the fourth. A tardy is an absence. The accumulation of twelve un-excused absences determines a grade of "F" regardless of the grade record. Students are not to leave the classroom without the permission of the instructor except for emergencies, and this must be explained to the instructor after class or the student will be marked absent. Cell phones and other electronic media must be turned off during class and not be on the desk top. Students are required to have Student ID's with them on test days. Visitors are not allowed in class. The instructor reserves the right to assign seats and to limit food or drinks. Students are encouraged to request a conference with the instructor in regard to any aspect of the course. If a student is asked to leave the class by the instructor, the student is suspended from class until a meeting with the instructor, the department coordinator, and student is held.

NORTHEASTERN ILLINOIS UNIVERSITY

Math 090: Introduction to Algebra

Mr. Gonzalez

Standards & Policy

COURSE EVALUATION: GRADING

There will be six unit grades consisting of five tests and the homework average. The final grade will be the average of these scores with no test score dropped. The grading scale is:

100-90 = A, 89-80 = B, 79-70 = C, 69-65 = D, 64-0 = F.

If a student knows that he/she is going to miss an exam, the instructor must be notified in writing at least one week prior to the test date and request an alternate date which must be before the scheduled date. A student must notify the instructor by e-mail within 24 hours of a missed exam in order to receive consideration for an excused absence. The student must document in writing the reason for the test absence. Failure to provide documentation will be recorded as a test grade of zero for that unit. There are no make-up tests. If an excused absence is granted by the instructor, the cumulative exam during the final schedule will replace the missing test score. If a student misses two exams, a withdrawal from class is recommended. Incompletes are only given for serious reasons and requests must be documented. Students must be passing with a grade of 70 or more to receive consideration for an incomplete.

If a student writes all five unit tests, the cumulative exam score scheduled during the final exam will replace the lowest unit score if the final exam score is higher. The homework grade is not replaceable.

GETTING HELP

Meet with your instructor during his / her office hours. Your instructor is the first and foremost learning resource. The Math Lab is located in the 4th Floor of the Library. Michael Martindale is the Lab Supervisor, e-mail: m-martindale@neiu.edu, telephone number: 773- 442-5769. The Lab offers tutoring, instructional software, and math web sites. Thomas Blackburn is Math Development Coordinator, Office: Science S 204 E, e-mail: t-blackburn1@neiu.edu, telephone: (773) 442-5766.

WITHDRAWAL FROM CLASS

Students are responsible for knowing their current test average and if below 70 at Mid-Term should consider withdrawal from the class. See your Instructor and your Academic Advisor for further information prior to the Withdrawal Date. Only students can withdraw from class by NEIUPORT Registration.

CLASS REQUIREMENTS & MANAGEMENT

Students are expected to be on time and prepared for each class. Class attendance is required. Two Final Grade Points will be deducted for each unexcused absence after the fourth. A tardy is an absence. The accumulation of twelve un-excused absences determines a grade of "F" regardless of the grade record. Students are not to leave the classroom without the permission of the instructor except for emergencies, and this must be explained to the instructor after class or the student will be marked absent. Cell phones and other electronic media must be turned off during class and not be on the desk top. Students are required to have Student ID's with them on test days. Visitors are not allowed in class. The instructor reserves the right to assign seats and to limit food or drinks. Students are encouraged to request a conference with the instructor in regard to any aspect of the course. If a student is asked to leave the class by the instructor, the student is suspended from class until a meeting with the instructor, the department coordinator, and student is held.

NORTHEASTERN ILLINOIS UNIVERSITY

Developmental Mathematics Program Math 090: Intro to Algebra,
Standards & Policy: El Centro / Mr. Gonzalez

EL CENTRO TELEPHONE: 773-442-4080 (Carefully Leave Message)

TEXTBOOK: "Prealgebra", Fifth Edition, by K. Elayn Martin-Gay, Pearson Prentice Hall,
ISBN: 0-13-231951-9

PREREQUISITES

The prerequisite for MATH 090 is either an appropriate score on the NEIU Math Placement Test or a Math ACT of 15 or less. The purpose of this course is to build a solid foundation in the fundamentals of algebra for success in Math 091, Basic Algebra. Be advised that the zero digit in 090 means that this course is not for graduation credit. However, the grade is used in calculating your grade point average.

COURSE DESCRIPTION

MATH 090, Introduction to Algebra, studies the real number system and its operations including integers and rational numbers. It develops fundamental concepts and structures of algebra, including variable expressions and linear equations. Decimals are studied as rational numbers. Applications include percent equations and proportions.

CORE ACADEMIC REQUIREMENT

Students are required to demonstrate the ability to understand, write, and process rational numbers and expressions variable expressions, and linear equations without the use of technology. Calculator type and use is limited.

COURSE REQUIREMENTS

Two separately bound notebooks are required, one for class notes and handouts, while the other is for homework. Homework must be documented by step by step written solutions. Your notebook also needs to show coherent organization, as well as careful attention to main concepts, definitions, examples, and vocabulary. Bring your notebooks to every class. Both notebooks will be collected on test days. Quality of the class notebook will be reflected by ten test points on each test. Homework notebook averaged grade will count as unit test score. A scientific calculator is allowed on the last three unit tests. TI 30X IIS is recommended. Graphing Calculators, TI 82, TI 83, etc. are not allowed.

NORTHEASTERN ILLINOIS UNIVERSITY

Math 090: Introduction to Algebra

Monday

Fall 2008

Weeks/Date

Textbook Readings, Reference Problems, and Test Dates

Unit Three

4.1 to 4.6: Fractions

7 Oct 6 4.1(1-39, 49-91), 4.2(1-63), 4.3(1-95)

8 Oct 13 4.4(1-43, 53-75), 4.5(1-91),

9 Oct 20 4.5 cont'd, Test Review

Test Three: Monday, October 20th, 4.1 to 4.5

(No Calculator)

Unit Four

4.6 & 4.8: Order of Operations / Solving Fractional Equations

10.1, 10.2, & 10.3: Positive Exponents and Polynomials

10 Oct 27 4.6(1-39), 4.8(1-69),

11 Nov 3 10.1(1-53), 10.2(11-49), 10.3(1-37),

Withdrawal Date

Friday, November 7th is the Last Day to Withdraw with a Grade of "W". Only Letter Grades of A, B, C, D, and F can be given after this date.

12 Nov 10 **Test Four: Monday, November 10th, 4.6 & 4.8 / 10.1, 10.2 & 10.3**
(No Calculator)

Unit Five

Chapter Five: Decimals, 6.1 to 6.3: Proportions, 7.1, 7.2 & 7.4: Percent

12 Nov 10 5.1(1-77), 5.3(57-67), 5.5(1-73),

13 Nov 17 5.6(1-13, 21-31), 6.1(1-11, 21-27, 39-49), 6.2(11-51),

14 Nov 24 6.3(1-29), 7.1(1-55, 65, 67), 7.2(1-47),

Thanksgiving Holiday, November 27th through November 30th

15 Dec 1 7.4(1-11, 23-51), Test Review

16 Dec 8 **Test Five: Friday, December 5th, Chapter Five, 6.1, 6.2, 6.3, 7.1, 7.2, & 7.4**
(A Scientific Calculator is allowed on this Test)

Cumulative Exam Review

Cumulative Exam

Final Exam Schedule (day/date/time): Wednesday December 10th 8:00 PM

NORTHEASTERN ILLINOIS UNIVERSITY

MATH 090: INTRODUCTION TO ALGEBRA

Fall 2008

SYLLABUS: MONDAY

Instructor: Armando Gonzalez

E-Mail: armgun@hotmail.com

Offices Hours: (Day/Time/Location): Friday, 6-8:30pm

Department Phone: (773) 442-5767

<i>Week / Date of Monday</i>	<i>Textbook Readings, Reference Problems, and Test Dates</i>
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<i>Unit One</i>	<u><i>Chapters One & Two: Whole Numbers and Integers</i></u>
<i>1 Aug 25</i>	<i>1.1(read), 1.7(1-85), 1.8(7-55, 67-87), 2.1(17, 21-81),</i>
<i>2 Sept 1</i>	<i>Monday, September 1st, Labor Day Holiday</i>
<i>3 Sept 8</i>	<i>2.2(1-67), 2.3(1-63), 2.4(1-113), 2.5(1-81), 2.6(1-51), Test Review</i>
<i>4 Sept 15</i>	<i>Test One: Monday, 1.7, 1.8, & Chapter Two (No Calculator)</i>
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<i>Unit Two</i>	<u><i>Chapter Three: Solving Linear Equations</i></u>
<i>4 Sept 15</i>	<i>3.1(1-81), 3.2(1-93)</i>
<i>5 Sept 22</i>	<i>3.2 cont'd, 3.3(1-71)</i>
<i>6 Sept 29</i>	<i>3.4(1-21), Test Review</i>
<i>7 Oct 6</i>	<i>Test Two: Monday, October 6th, Chapter Three (No Calculator)</i>
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<i>Spring Permits</i>	<i>Students, who are passing after Test Two, should request your instructor to issue you a permit authorization form to advance register for Math 091, Basic Algebra, for Spring, 2009.</i>
