

NORTHEASTERN ILLINOIS UNIVERSITY

MATH 092: INTERMEDIATE ALGEBRA M-W-F FACULTY SYLLABUS FALL 2009

Instructor:

E-Mail:

Office Hours:

Department Phone: 773.442.5766

Section / MML Course Name

Week /Date of Monday

Textbook Sections, Reference Problems, and Test Dates

Unit One

Linear Equations and Inequalities

1 Aug 31

2.1(13-55), 2.3(1-23), 2.4(1-31), 2.5(13,15, 25, 27, 31, 41)

2 Sept 7

Monday, September 7th, Labor Day Holiday

2.6(1-17), 3.1(Read) 3.2(55-67),
3.3(13-33, 73, 75), 3.4(1-17,25-57)

3 Sept 14

3.5(1-5, 13-29, 41-45), 3.7(1-11 23-27), Test Review

4 Sept 21

Monday, September 21st, Test One: Linear Equations and Inequalities

Unit Two

Systems of Linear Equations, Exponents, and Polynomials

4 Sept 21

4.1(15, 17, 23, 25, 29, 31, 35, 41), 4.3(7, 11, 17)

5 Sept 28.

5.1(1-81, 93-101), 5.2(1-55), 5.3(19, 21, 23, 37-65)

6 Oct 5

5.4(1-11; 17-33), 5.9-79), 6.4(1-15), Test Review

Friday, October 9th, Test Two: Linear Systems, Exponents, & Polynomials

Registration for Spring 2010 College Level Mathematics Classes

Freshman Students, who are currently enrolled in Math 092, need to schedule an appointment with your academic advisor after Test Two to plan your spring 2010 class schedule. Continuing students, who are currently enrolled in Math 092, Intermediate Algebra, can register directly online via NEIUPORT for spring 2010 college level mathematics classes. If you do not complete Math 092 with a grade of "C" or higher, you will be dropped from your spring mathematics class before classes begin.

NORTHEASTERN ILLINOIS UNIVERSITY

Math 092: Intermediate Algebra

M-W-F Faculty Syllabus

Fall 2009

Week /Date of Monday

Textbook Sections, Reference Problems, and Test Dates

Unit Three

Factoring Polynomials, Rational Expressions, & Rational Equations

7	<i>Oct 12</i>	<i>5.5(1-65), 5.6(15-33), 5.7(1-27)</i>
8	<i>Oct 19</i>	<i>5.8(1-19, 29-39), 6.1(13-55), 6.2(1-9, 23-41, 47-55)</i>
9	<i>Oct 26</i>	<i>6.5(1-15, 23-27), 6.6(1-17, 27, 29, 37, 53), Test Review</i>
10	<i>Nov 2</i>	<i>Monday, November 2nd, Test Three Factoring Polynomials, Rational Expressions & Equations</i>

Unit Four

Radical Expressions, Rational Powers, Radical Equations, Exponential Equations & the Definition of a Logarithm

10	<i>Nov 2</i>	<i>7.1(1-17), 7.3(1,7,9,13,15,25,27,31,35,37,39,45,47,53,55,59,65), 7.4(1,3,5,9,11,15,17,19,21,25,27,39,47-65)</i>
11	<i>Nov 9</i>	<i>7.2(1-59, 73-83), 7.6(1-17, 23-33)</i>
12	<i>Nov 16</i>	<i>9.3(21-35), 9.4(1-27), Test Review</i>
13	<i>Nov 23</i>	<i>Monday, November 23rd, Test Four: Radical Expressions, Rational Powers, Radical Equations, Exponential Equations, and the Definition of a Logarithm</i>

Unit Five

Complex Numbers, Quadratic Equations, Graphs of Quadratic Functions, Logarithmic Equations and Properties

13	<i>Nov 23</i>	<i>7.7(1-71, 99-109)</i>
		<i>Thanksgiving Holiday, November 26th thru November 29th.</i>
14	<i>Nov 30</i>	<i>8.1(11-25), 8.2(1-35), Review of Quadratic Equations</i>
16	<i>Dec 7</i>	<i>8.6(1-51), 9.4(45-67), 9.5(1-33)</i>
15	<i>Dec 14</i>	<i>Test Review</i>
	<i>Dec 15-16-17</i>	<i>Test Five: Complex Numbers, Quadratic Equations, Graphs of Quadratic Functions, Logarithmic Equations & Properties</i>
		<i>(see final exam schedule for date, day, time)</i>

NORTHEASTERN ILLINOIS UNIVERSITY

Math Developmental Program Math 092, Intermediate Algebra Standards & Policy

COURSE EVALUATION: GRADING

There will be six unit grades: five unit grades and the online homework unit average. In order to earn online homework credit, the homework notebook must be submitted on each test date documenting step by step solutions that have been scored online. A maximum of 20 points will be allowed for each unit. Unit grades will total 100 points and include classroom tests, quizzes, and other assignments. 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 and must be acceptable to the instructor. 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 fifth exam during the final schedule will replace the missing test score. If a student misses two exams, a withdrawal from class is recommended.

If a student writes all five unit tests, the fifth test score scheduled during the final exam period will replace the lowest unit scores, if the fifth score is higher. The online homework unit grade is not replaceable. Incompletes are only given for serious reasons and requests must be documented. A student must be passing with an average grade of 70 or more to receive consideration for an incomplete.

GETTING HELP

The Math Lab is located on the Fourth Floor of the Library. Michael Martindale is the Lab Supervisor: e-mail: m-martindale@neiu.edu, telephone: 773-442-5769. The Lab offers tutoring, instructional software, and math web sites. Thomas Blackburn is the Math Development Coordinator: 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

Student 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 absence. A tardy is considered an absence. Students are not allowed to leave during class without the permission of the instructor except for emergencies and must provide an explanation at the end of class or they will be marked absent. The accumulation of twelve absences determines a grade of "F" regardless of the grade record. Cell phones and other electronic media are to be turned off during class and not on the desk top. Students are encouraged to request a conference with the instructor in regard to any aspect of the course. 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 limit food or drink.

Revised 8-17-09/TJB

NORTHEASTERN ILLINOIS UNIVERSITY

**Developmental Mathematics Program Math 092: Intermediate Algebra,
Standards & Policy**

Math Development Department Phone: 773-442-5767 (Carefully Leave Message)
Math Development Office: Science Building: Room S204-B.

REQUIRED MATERIAL: "My Math Lab Student Access Kit" Pearson Publishing.
ISBN: 321-43130-8

Student Access Kit provides on line multi-media textbook, online homework, and other learning resources.

OPTIONAL TEXTBOOK: "Intermediate Algebra", Fifth Edition, 2007, by Elayn Martin-Gay
Pearson-Prentice Hall, ISBN: 10-0-13-600729-5

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 8 ½ by 11 spiral bound notebooks are to be kept, one for class notes and the other for completely documented online homework solutions. Failure to document online homework with step by step written solutions will reflect in no MML homework unit credit regardless of the percentage scored completed. Your notebooks also need to show coherent organization, as well as careful attention to main concepts, definitions, examples, and vocabulary. A scientific calculator is allowed on testing. A TI 30X IIS is recommended. Graphing calculators are not allowed testing.