Bronx Community College, City College University of New York
Department of Mathematics and Computer Science

Syllabus: MTH05 Elementary Algebra (0 credits, 6 hours)   *taught by Professor Natalia Novak*
Textbook: reference text by Professor Uma Iyer (version 4, Summer 2016)
Prerequisites: MTH01 or equivalent and RDL 01 if required.   **Corequisite**: RDL 02 if required

Topics	WeBWork HW
1.1 Review of Fractions	HW 01
1.2 Addition and Subtraction of Real Numbers, **1.3** Multiplying and Dividing Real Numbers	HWs 02, 03, 04
1.4.1-1.4.2 (ignore radicals for now) Exponents and Radicals, and **2.1** Order of operations	HW 05
3.2.1 Transition to Algebra, **2.2** Evaluating algebraic expressions	HWs 06, 07
3.1 Solving Linear Equations	HW 09
3.3 Literal Equations, **3.4** Linear Inequalities in One Variable	Hws 10, 13
Sample Test 1	
Test 1	
4.1 Linear equations in two variables	HW 14
4.2 The cartesian coordinate system **4.3** Graphing linear equations	Hws 15, 16
4.4 The slope of a line **4.5** Equations of lines (to be continued next week)	HW 17
4.5 Equations of lines (continues) working on the homework assignment	HW 18
4.5 Equations of lines (finishing up)	
4.5 Equations of lines (few more examples), **4.7** Systems of linear equations (solving by graphing, by elimination and substitution methods)	HW 20
4.7 Systems of linear equations (continues), working on homeworks	
4.6 Graphing linear inequalities in two variables	HW 21
4.6 Graphing linear inequalities in two variables	HW 19
Preparing for Test 2	
Test 2	
5.1 Integer Exponents	HWs 22, 23
5.2 An introduction to polynomials	HW 25
5.3 Adding and Subtracting Polynomials,	HW 26

5.4 Multiplying Polynomials	

5.5 Division of polynomials by monomials
Factoring polynomials:
   5.6.1 The Greatest Common Factor
   5.6.2 The Grouping Method
   5.6.3 Special Products
	HW 27, 28

Factoring polynomials (continues)
   5.6.4 - 5.6.5 Factoring Trinomials
   5.6.6 Summary
	HW 29

5.7 Solving Quadratic Equations by Factoring **5.8** Solving Word Problems Using Quadratic Equations	HW 30
Review/Sample Test 3	
Test 3	
6.1 Roots and Radicals, including Pythagoran Theorem and Distance Formula	HWs 31, 32
6.2 Operations on Radicals **6.3** Complex Numbers	HW 33 HW 34
7.1 Solving Quadratic Equations (completing the square and quadratic formula) **7.2** Introduction to Parabolas	HWs 35, 36 HW 37
Test 4 practice	
Test 4	
Final Exam Practice	

Instructor: Natalia Novak

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Our course will be supported by the web-page that can be found here: natna.info/teaching.html

Office hours: at CP 122

    Monday, 2:00pm – 3:00 pm   and   Wednesday, 10:00 am – 11:00 am

Math Tutoring Lab: Learning Commons (Meister Hall, Sub-Basement, Suite 05); Phone: 718-289-3139

    Monday – Friday: 10 am – 8 pm
    Saturday & Sunday: 10 am – 3 pm

Cell phones policy: please, respect other students and me. Turn off or switch to silent mode your phones before entering the class room. Text messaging is prohibited in class.

Grade distribution:

HWs   20%

Tests   45%

Final Exam   35%

Grading policy:
in order to pass MTH05 class you need to *get at least 70%*

Homework assignments:

- o   You'll be given homework assignments in each class.
- o   All the homework must be done and submitted online, through the WeBWork system
- o   Homeworks are graded, and they make up 20% of your final MTH05 grade.

Tests:

- o   we will have <u>four</u> tests,
- o   before each test, we will have a separate class where we will review the material that will be on it or will work on a sample test
- o   a week before this review I'll distribute/post the review problems

Final Exam:

- o   Final Exam is a *computerized multiple choice exam*.
- o   There are 25 questions and it is timed at 100 minutes.
- o   You will be taking Final Exam at the testing office in NI 200A, date to be provided by the college
- o   We will allocate two classes for preparation to the Final Exam

The Tests and the Final Exam are closed book and closed notes. You can use simple calculators, but no smartphones.

Attendance: I will be taking attendance in every class

- o   If you are **more than 30 minutes late** to class, you are considered to be **absent**.
- o   It is the policy of this class, that if If you get **6 inexcusable absences** (without a genuine and documented reason) you automatically get **F** as a course grade.
- o   If you miss a class, it is **your responsibility to get the material we covered in class and the HW assignment**. Make sure you come prepared to the next class and submit homework assignment on time.

Please, note that **<u>there will be no extra assignments in order to raise your grade</u>**, so please do the homework and submit it on time, prepare well for the Tests and the Final Exam.

TextBook: reference text by Professor Uma Iyer (version 4, Summer 2016)
Unfortunately, the hard copy of this book will not be distributed.
The pdf file (electronic version of the book) is available on our department's web-site and on our class web-page.

WeBWork: Visit out class web-page http://natna.info/MTH05/, to get the link to it.

Instructions on how to log-in into the WeBWork *first time*:
User name: firstlast

     example: Jane Smith would be **janesmith**

Note: no spaces, no capitalization, apostrophes are taken out, hyphens stay in
   (e.g **O'brien** will be **obrien**   and   **Megan Weber-Smith** will be **meganweber-smith**)

Password: same as the user name

<u>After logging-in:</u>
1) Please **change your password** using the 'password/email' link in the menu on the left,
2) add **your preferred email address** (same location as for item 1). It is especially important to add the e-mail as a means of communication with me!!!

If you have trouble signing in, make sure that your last name is in all lower case letters, and that the last four digits of your social security number are correct, and you are using this same correct format for your password. If you have verified that this is correct and you still cannot sign in, send me an email.