

Syllabus for MTH 28.5

1. GENERAL COURSE INFORMATION

Instructor: Kerry Ojakian (*Email:* ojakianteaching@gmail.com).

Website: <http://fsw01.bcc.cuny.edu/kerry.ojakian/TeachingPages/TeachingMainPage.html>

See website for other course information (book, office hours, etc)

2. TESTS

- There will be 3 tests during the semester, and a fourth exam (the final exam), after the semester. The lowest of your 3 in-class tests will be dropped completely. The final exam cannot be dropped.
- For each test, you are responsible for all material covered prior to it. The final exam will be comprehensive, covering all the course material.
- There are no make-up exams.

3. IN-CLASS WORK

- We will have regular “in-class” assignments (sometimes done in groups). They will be worth 5 points, with a possible grade of 3, 4, or 5.
- If you are not present for a class when an in-class assignment is being worked on, you will receive a 0 for that assignment (except under extenuating circumstances cleared by the professor). However, if you are present and put in some work, you will get at least a 3.
- Your lowest in-class assignment grade will be dropped.

4. HOMEWORK

- There will be two kinds of homework: Paper-and-pencil homework, and WEBWORK homework. The WEBWORK homework is done online, on a computer. For the paper-and-pencil homework, there are 4 in total, one due before each of the exams.
- Late homework is not accepted. However, your lowest handwritten homework grade will be dropped. I also essentially drop your lowest couple of WEBWORK homeworks; in fact I do better: I simply add 5 % points to your WEBWORK homework score at the end of the semester (though your score can't go above 100%).

5. GRADING

Your final numerical grade will be determined as follows:

- (a) Final Exam: 30%
- (b) In-Class Tests: 40% (i.e. your 2 highest tests count 20% each)
- (c) Homework: 20%
- (d) In-Class Assignments: 10%

From the final numerical grade, the guaranteed minimum term grade is as follows:

A- for 90 or above, B- for 80 or above, C- for 70 or above, D- for 60 or above

6. EXPECTATIONS

Respect. You are expected to show respect for the other students, the professor, and the class environment. In particular, behavior which disrupts the learning of other students will not be tolerated (for example, engaging in a conversation while I am lecturing).

Class Attendance. You are responsible for everything discussed in class. If you miss class, it is *your responsibility* to find out what you missed. There will be in-class work, which you can **not** make up if you miss class.

7. ACADEMIC INTEGRITY

Academic dishonesty (such as plagiarism and cheating) is prohibited at Bronx Community College and is punishable by penalties, including failing grades, dismissal and expulsion. For additional information and the full policy on Academic Integrity, please consult the BCC College Catalog.

8. ACCOMMODATIONS/DISABILITIES

BCC respects and welcomes students of all backgrounds and abilities. In the event you encounter any barrier(s) to full participation in this course due to the impact of a disability, please contact DisAbility Services as soon as possible this semester. A Disability Services specialist will work with you to review the barriers you are experiencing and explain the eligibility process for establishing academic accommodations for this course. You can reach DisAbility Services by email at disabilityservices@bcc.cuny.edu or by phone at (718) 289-5874.

9. Course Description

Fundamentals of elementary, intermediate and college algebra essential for the study of pre-calculus and calculus. Topics include linear equations, polynomials, factoring, roots and radicals, rational expressions, quadratic equations, the function concept, and the trigonometric ratios. This course is equivalent to MTH 28 in academic content and for the purposes of transfer and grade replacement. This course is a Pathways Core B (Mathematical and Quantitative Reasoning) Course: This course meets the following learning outcomes. A student will:

a) Interpret and draw appropriate inferences from quantitative representations, such as formulas, graphs, or tables. b) Use algebraic, numerical, graphical, or statistical methods to draw accurate conclusions and solve mathematical problems. c) Represent quantitative problems expressed in natural language in a suitable mathematical format. d) Effectively communicate quantitative analysis or solutions to mathematical problems in written or oral form. e) Evaluate solutions to problems for reasonableness using a variety of means, including informed estimation. f) Apply mathematical methods to problems in other fields of study.

Student Learning Outcomes: Upon completion of this course, students will be able to: 1. Perform operations of integer, fractions, polynomials, rational expressions, radical expressions, expressions with rational exponents, and complex numbers (a, b, d) 2. Solve linear equations and inequalities, rational equations, radical equations, and factorable polynomial equations (b, d, e) 3. Solve quadratic equations by factoring, by completing the square, and by the quadratic formula (b, d, e) 4. Demonstrate fluency with function notation. (a, c, d) 5. Translate word problems involving modeling with functions and quadratic equations (c, d, f) 6. Solve right triangle trigonometry problems (a, b, d, e) 7. Form models to apply them in the solution of real-world problems involving trigonometry (a, c, d, f)