Baruch College Department of Mathematics
MTH 1023 Course Syllabus
Professor Low

Email: Raymond.low@baruch.cuny.edu
Emails sent during office hours will be given an immediate response; all other emails will be given a response within 24 hours

Lectures: Tuesdays, Thursdays, Fridays — 10:45 am – 12:00 pm, VC 6-118

PLTL Meetings: Fridays — 9:05 am – 10:20 am (check schedule for room assignment)

Student Drop-In Hours: Tuesdays, Thursdays — 8:00 am – 9:00 am **or** by appointment

Either **in person** VC 6-205, call 646-312-4157 at door
or **Zoom** https://baruch.zoom.us/j/97693559612 (passcode 437935)

Required Purchase: *Martin-Gay, Beginning & Intermediate Algebra, 7th Ed.*
Purchase on Brightspace under "Homework" tab (see related Announcement)
This is a required purchase because you need the access code in order to complete your online assignments.

Grading Policy:

Homework (MyMathLab)	10%
Quizzes (MyMathLab)	10%
In-Class Tests	50%
Final Exam	30%
TOTAL	**100%**

IMPORTANT: It is departmental policy that you MUST:
- score **50%** or higher on the final exam AND
- have an overall grade of **60%** or higher

Students who do not meet BOTH requirements cannot pass the course.

Course letter grades will be assigned based on the overall percentage as described at http://www.baruch.cuny.edu/undergraduate-advisement-and-orientation/grades-and-gpa.html
Note: The mathematics department at Baruch does NOT give out Incomplete (INC) grades.

Homeworks and Quizzes

Done online through Pearson MyMathLab. You must access the MyMathLab **through** Brightspace by going to the Brightspace section for this class and using **Homework** and **Quizzes** tabs. As stated above, you need to purchase an access code in order to complete the assignments. **The due date for assignments is 11:59 pm before the in-class test**. Remember to do BOTH the homeworks and quizzes for each section!

In-Class Tests

There will be **five in-class tests**, each worth 10% and totaling 50%. They will be a combination of multiple choice and short answer. Show as much work as possible for full credit.

Lectures (3 times per week)

Classes will be synchronous and will meet in person. **Attendance is MANDATORY** and is taken every class. In-person days MAY be moved online if needed.

Attendance and class participation are CRUCIAL for learning the material for this course. All students are expected to be ON TIME. **If you arrive more than 10 minutes after the beginning of lecture, you will be considered ABSENT for the day.** Excessive absences may result in a failing grade for the course. Students who miss class are responsible for all material and assignments covered during missed lecture(s). **Every unexcused absence is 10% off the assignment score for that day.**

An absence is considered excused ONLY if students email the professor before class with valid documentation and/or a doctor's note. This includes exam days. NO EXCEPTIONS.

Peer Led Team Learning

In addition to attending lecture three times per week, students will participate in a weekly session of **Peer Led Team Learning (PLTL)**. During these, students meet in small groups to work collaboratively on practice problems to help master concepts and develop problem solving skills. A trained PLTL Peer Leader will guide the group. Students need to bring class notes to every PLTL meeting, as well as the e-text. Students who don't have a tablet or a laptop may want to borrow one from the kiosk on the second floor of the Vertical Campus near the main elevators. The problem sets used during PLTL are developed by faculty, and will be similar to what appears on homework/quizzes/exams. ***Attendance at PLTL is mandatory. Absence from PLTL counts as an absence from class.***

Lecture Notes

A PDF copy of lecture notes is available on DropBox:
https://www.dropbox.com/scl/fo/0fia1c74aq01vox61ghvn/ABmzGqub7SXdOCFysicviko?rlkey=bvyintjw7ix28i0otjnhratbs&st=wv2iax4u&dl=0
Please READ THE NOTES before class so that you have some familiarity with them.

Academic Honesty

The Department of Mathematics and the course instructor fully support Baruch College's policy on academic honesty, which states in part: **"Academic dishonesty is unacceptable and will not be**

tolerated. Cheating, forgery, plagiarism, and collusion in dishonest acts undermine the college's educational mission and the students' personal and intellectual growth. Baruch students are expected to bear individual responsibility for their work, to learn the rules and definitions that underlie the practice of academic integrity, and to uphold its ideals. Ignorance of the rules is not an acceptable excuse for disobeying them. Any student who attempts to compromise or devalue the academic process will be sanctioned."

Academic sanctions in this class will range from an F on the assignment to an F in this course. A report of suspected academic dishonesty will be sent to the Office of the Dean of Students.

Participation

In person, students are encouraged to raise their hands and ask questions. Over Zoom, students are encouraged to keep cameras on and unmute microphones to respond to questions. The more you participate, the smoother the learning process is and the more your needs are met.

To do well in this class, it is essential to study on a DAILY basis and work on MyMathLab assignments as soon as you learn the corresponding sections. **Merely attending lecture is not enough**; in order to pass this class, you will need to read the assigned sections and do the assignments on your own.

Each class will consist of a lecture explaining the concepts and showing examples from that day's section(s), which **you should have read prior to class (either from the textbook and/or from the notes)**. After class, you should complete the assignments related to that day's lecture, and before the next class, you should read the next assigned sections from the textbook. Read the corresponding sections from your notes and the textbook before you start doing the homework. You may discuss difficult homework problems with others, but make sure you try them first.

If you need help with the material, talk to the instructor as soon as possible. Try extra homework problems. Do not stop working when you think you understand the material. Instead, stop when going through the problems is a matter of routine, and you have a high level of confidence that your answers are correct. You are strongly urged to take full advantage of student drop-in hours if you have any questions or course-related concerns.

Statement for Students with Disabilities

Baruch has a continuing commitment to providing reasonable accommodations for students with disabilities. Like so many things this fall, the need for accommodations and the process for arranging them have been altered by COVID-19 and the safety protocols currently in place. Students with disabilities who may need some accommodation in order to fully participate in this class should contact Student Disability Services as soon as possible at disability.services@baruch.cuny.edu or call 646-312-4590.

Learning Goals of the Course

Upon completion of this course, students will be able to:

- Recognize and solve systems of linear equations for both variables or for the value asked by the problem.
- Use the concept of slope to illustrate rates of change and understand rates of change in real world situations.
- Recognize and perform algebraic manipulation on polynomials.
- Factor polynomials and solve quadratic equations.
- Apply critical thinking in manipulating irrational expressions.
- Understand and determine the domain and range of a function.
- Apply step by step processes to solve non-linear inequalities.
- Graph quadratic functions and solve related applied problems.
- Analyze information and compose functions.

Course Schedule

All dates are subject to change.

DATE	UNIT	SEC.	TOPIC(S)	DUE DATES (hw AND quizzes)
1/27	1	3.3 3.4	Intercepts Slope and Rate of Change	2/12 @ 11:59 pm
1/29	1	3.2 3.5	Graphing Linear Functions Equations of Lines	2/12 @ 11:59 pm
1/30	1	3.6	Properties of Functions	2/12 @ 11:59 pm
2/3	1	4.1 4.2	Linear Systems of Equations: Graphical Method Linear Systems of Equations: Substitution Method	2/12 @ 11:59 pm
2/5	1	4.3	Linear Systems of Equations: Addition Method	2/12 @ 11:59 pm
2/6	1	4.5	Problem-Solving w/ Linear Systems of Equations	2/12 @ 11:59 pm
2/10	1	--	Exam 1 Review	--
2/13	**1**	**--**	**Exam 1**	**--**
2/19	2	5.1 10.2	Properties of Exponents Rational Exponents	3/9 @ 11:59 pm
2/20	2	5.2 5.3	Operations w/ Polynomials: Addition & Subtraction Operations w/ Polynomials: Multiplication	3/9 @ 11:59 pm
2/24	2	5.4 6.1	Special Products w/ Polynomials GCFs & Factoring by Grouping	3/9 @ 11:59 pm
2/26	2	6.2 6.3	Factoring Trinomials: Leading Coefficient of $A = 1$ Factoring Trinomials: Any Leading Coefficient	3/9 @ 11:59 pm
2/27	2	6.4 6.5	Factoring Trinomials: Any Leading Coefficient Factoring Binomials	3/9 @ 11:59 pm
3/3	2	6.6	Solving Quadratic Equations: Factoring	3/9 @ 11:59 pm
3/5	2	6.7	Problem-Solving w/ Quadratic Equations	3/9 @ 11:59 pm

3/6	2	--	Exam 2 Review	--
3/10	**2**	**--**	**Exam 2**	**--**
3/12	3	7.1	Simplifying Rational Expressions	3/30 @ 11:59 pm
3/13	3	7.2	Rational Expressions: Multiplication & Division	3/30 @ 11:59 pm
3/17	3	7.3 7.4	Rational Expressions: Addition & Subtraction	3/30 @ 11:59 pm
3/19	3	7.5	Solving Equations w/ Rational Expressions	3/30 @ 11:59 pm
3/24	3	7.6	Problem-Solving w/ Rational Equations	3/30 @ 11:59 pm
3/26	3	7.7 8.4	Complex Fractions Variation	3/30 @ 11:59 pm
3/27	3	--	Exam 3 Review	--
3/31	**3**	**--**	**Exam 3**	**--**
4/10	4	10.1 10.3	Radical Functions & Expressions Simplifying Radical Expressions	4/27 @ 11:59 pm
4/14	4	10.4	Operations w/ Radical Expressions	4/27 @ 11:59 pm
4/16	4	10.5	Rationalizing Denominators	4/27 @ 11:59 pm
4/17	4	--	Indeterminate Forms	4/28 in class **(extra written assignment)**
4/21	4	10.6	Problem-Solving w/ Radical Equations	4/27 @ 11:59 pm
4/23	4	10.7	Elementary Complex Numbers	4/27 @ 11:59 pm
4/24	4	--	Exam 4 Review	--
4/28	**4**	**--**	**Exam 4**	**--**
4/30	5	11.1	Solving Quadratic Equations: Completing the Square	5/13 @ 11:59 pm
5/1	5	11.2	Solving Quadratic Equations: The Quadratic Formula	5/13 @ 11:59 pm
5/5	5	11.3	Solving Equations w/ Quadratic Methods	5/13 @ 11:59 pm
5/7	5	11.4	Nonlinear Inequalities	5/13 @ 11:59 pm
5/8	5	11.5 11.6	Graphs of Quadratic Functions	5/13 @ 11:59 pm
5/12	5	--	Exam 5 Review	--
5/14	**5**	**--**	**Exam 5**	**--**
5/15		--	Final Review	--
5/19		--	Final Review	--
TBD @ 8 am			**Final Exam**	**--**