College of Staten Island, City University of New York (CUNY)

Math 035 (Section 32621): Spring 2020 Syllabus

Intermediate Algebra

Instructor: **Joseph Maher**

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Office hours: M 12:20-2:15, W 2:30-3:20

Course location: W 12:20-2:15 1S-105

Textbook: Steege and Bailey, *Intermediate Algebra*, 2nd edition, Schaums Outlines
ISBN: 978-0-07-162998-0

Grading policy: 100% Attendance and quizzes

Additional info:

Disability policy: Qualified students with disabilities will be provided reasonable academic accommodations if determined eligible by the Office for Disability Services. Prior to granting disability accommodations in this course, the instructor must receive written verification of student's eligibility from the Office of Disability Services, which is located in 1P-101. It is the student's responsibility to initiate contact with the Office for Disability Services staff and to follow the established procedures for having the accommodation notice sent to the instructor.

Integrity policy: CUNY's Academic Integrity Policy is available online at
`https://www.csi.cuny.edu/catalog/undergraduate/academic-policies.htm#o3518`

College of Staten Island
MTH 035

Course Outline

Text: Intermediate Algebra 3rd edition, Schaum's Outlines. Ray Steege, Kelly Bailey.
ISBN 978-1-260-12074-5

Description: MTH 035 serves two purposes: to assist and ensure that the homework in a co-requisite MTH 123 course is being done in a timely and accurate manner; and to ensure that the foundational skills of intermediate algebra are fully mastered. It is expected that half of each class will be devoted to each. This syllabus pertains to the intermediate algebra portion of the course.

F14: JV, AR, DM, MT, JCD; S19: RF

Lesson	Description	Assignment
1	Linear and Literal Equations	p129: 4.2 a,c,e,g,i,k p130: 4.7 a,c,e,g
2	Lines: slope, point-slope, and slope-intercept form	p129: 4.3 d,e,f p130: 4.4 a,b,d,e p284: 8.8 a,b,c p284: 8.10 b,c p284: 8.13 a,c
3	Lines: parallel and perpendicular lines, standard form of a line	P284: 8.9 a, b P284: 8.14 a,b P284: 8.15 a,b P284: 8:16 a,b,c,d
4	Exponents (integer powers), scientific notation	P167: 5.1 e,f,g,h P168: 5.2 c,e,g,i,k P168: 5.3 a,c,e P168: 5.4 a,c,e P168: 5.5 a,b,c
5	Exponents (rational powers), radical notation	P168: 5.7 b,d,f P168: 5.8 a,c,e,g,i P169: 5.9 a,c,e P169: 5.10 b,d,f,h P169: 5.11 b,d,f,h P169: 5.12 b,d,f
6	Complex number: i, addition, subtraction and multiplication, division	P170: 5.16 a-r
7	Quadratic expression, the quadratic equation	P210: 6.1 a,c,e,g P211: 6.2 a,c,e P211: 6.3 a,b P211: 6.4 a,c P211: 6.5 a,b,c,d

8	Radical expressions and radical equations	P169: 5.13 a,c,e,g P169: 5.14 a,c,e P169: 5.15 a,c,e,g
9	Rational expressions	P87: 3.1 b,d,f P87: 3.2 b,d,f P87: 3.3 a,c,e P87: 3.4 a,c,e,g,i,k P87: 3.5 b,d,f,h
10	Rational expression and equations, applications	P88: 3.6 b,d,f,h P88: 3.7 a,b P88: 3.8 a,c,e P88: 3.10 b,d,f,h P89: 3.11 a,c,e,g,i,k
11	Linear inequalities (one variable), absolute- value inequalities	P131: 4.17 a,c,e,g P132: 4.24 a,c,d,f,g,h P132: 4.25 a,c,e,g,i,k
12	Linear inequalities in two variables	P131: 4.18 a-g P131: 4.19 P131: 4.20 P131: 4.21 P131: 4.22 P131: 4.23
13	Graphing quadratic equations	P212: 6.11 a-h P212: 6.12 a-c P212: 6.13 a,c,e
14	Review for MTH 123 final exam	

ROLE IN CURRICULUM

MTH 123 is a college algebra / trigonometry class that provides mathematical skills necessary for further success in STEM (science, technology, engineering and mathematics), business and teaching majors. It satisfies the general education requirement. Moreover, MTH 123 prepares the students for the next level of courses in mathematics, usually pre-calculus. The prerequisite is MTH 030 or an appropriate score on the CUNY proficiency/placement exam taken by many students who stop at Regents A

LEARNING GOALS AND ASSESSMENT PLAN

Learning Goal	Assessment
Solve equations and manipulate expressions with linear, quadratic, exponential, logarithmic and trigonometric functions.	NA
Analyze graphs of linear, quadratic, exponential, logarithmic and trigonometric functions.	NA
Solve application problems using these functions.	NA
	NA

When assessment activities are done, the results will be summarized in memorandum form and filed with the department chairperson for record keeping purposes.

Information obtained from assessment will be used to assess and self-reflect on the success of the course and to make any necessary changes to improve teaching and learning effectiveness.

Undergraduate Catalog Course Description

College of Staten Island

Course prefix:	MTH
Course number:	035
Course title:	Intermediate Algebra
Subject	Mathematics
Minimum credits:	0.0
Maximum credits:	0.0
Hours per week:	2.0
Course description:	A co-requisite recitation course to reinforce intermediate algebra skills for a select cohort of MTH 123 Students.
Prerequisite:	(Co-Requisite: MTH 123 & Pre-Requisite: MTH 20 with a grade of S) or (Co-Requisite: MTH 123 & an appropriate score on the CUNY MATH Assessment Test) or Permission of the Department of Mathematics.
Comments:	