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

Math 035 (Section 22972): Spring 2021 Syllabus

Intermediate Algebra

Instructor: Joseph Maher

Office: 1S-222 Phone: (718) 982-3623 Email: joseph.maher@csi.cuny.edu

Office hours: M 2:30-4:25 W 3:35-4:25

Course location: M 12:20-2:15 online

Textbook: Stewart/Redlin/Watson, PreCalculus - Webassign Edition , 5th edition, Cengage ISBN:

Grading policy: 100% Homework, quizzes and attendance

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 http://www.cuny.edu/about/info/policies/academic-integrity.pdf 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- | p129: 4.3 d,e,f |
| | intercept form | 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 | P284: 8.9 a, b |
| | lines, standard form of a line | P284: 8.14 a,b |
| | | P284: 8.15 a,b |
| | | P284: 8:16 a,b,c,d |
| 4 | Exponents (integer powers), | P167: 5.1 e,f,g,h |
| | scientific notation | 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 | P168: 5.7 b,d,f |
| | notation | 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 | P170: 5.16 a-r |
| | and multiplication, division | |
| 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 | P88: 3.6 b,d,f,h |
| | equations, applications | 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), | P131: 4.17 a,c,e,g |
| | absolute- value inequalities | 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

Corequisite course for MTH 123

LEARNING GOALS AND ASSESSMENT PLAN

| Learning Goal | Assessment |
|--|------------|
| Solve equations and manipulate ex- | NA |
| pressions with linear, quadratic, expo- | |
| nential, logarithmic and trigonometric | |
| functions. | |
| Analyze graphs of linear, quadratic, ex- | NA |
| ponential, logarithmic and trigonomet- | |
| ric functions. | |
| Solve application problems using these | NA |
| functions. | |
| | 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 re- |
| | inforce intermediate algebra skills for a |
| | select cohort of MTH 123 Students. |
| Prerequisite: | (Corequisite: MTH 123 & Prerequi- |
| | site: MTH 20 with a grade of S") or |
| | (Corequisite: MTH 123 & an appro- |
| | priate score on the CUNY MATH As- |
| | sessment Test) or Permission of the De- |
| | partment of Mathematics." |
| Comments: | |