

Developmental, 100 and 200 level MATHEMATICS COURSES AND THEIR PREREQUISITES

MTH 20: Elementary Algebra STUDENTS WHO ARE NOT MATH PROFICIENT MUST BE PLACED IN THIS COURSE

MTH 30: Intermediate Algebra

Mth 20 → Mth 30

MTH 35 Intermediate Algebra Recitation AND Mth 20 (S grade) → (Mth 35 + Mth 123)
MTH 123: College Algebra and Trigonometry

MTH 102: Math for Liberal Arts

Mth 20 → Mth 102

MTH 108: Medical Dosage

Mth 20 → Mth 108(Discontinued from Fall 2015)

MTh 113: Probability and Statistics

Mth 20 → Mth 113

MTH 121: Finite Mathematics

Mth 20 → (Mth 30 OR a grade of B or above in Mth 102
or Mth113) → Mth 121

**MTH 123: College Algebra
& Trigonometry**

(Mth 30 OR a grade of B or above in Mth 102 or Mth 113) → Mth 123

OR Mth 20 (S grade) → (Mth 35 + Mth 123)

MTH 130: Precalculus

Mth 123 → Mth 130

MTH 214: Statistics with Computers

Mth 130 → Mth214

OR Mth 221 → Mth 214

MTH 217: Math Fundamental I &
MTH 218: Math Fundamental II

Mth 123 → Mth 217th → Mth 218

MTH 221: Business Calculus

Mth 121 → Mth 221

OR

Mth 123 → Mth 221

CSC/Mth 228: Discrete Mathematics

Pre requisites:: Mth 123, CSC 126 (Grade C required), CSC 211

CALCULUS SEQUENCE:

Mth 231+229, Mth 232, Mth 233

OR

Mth 230+229, Mth 232, Mth 233

Mth 229: Calculus Computer Laboratory

Mth 230: Calculus I with Pre Calculus

Mth 231: Calculus I

Mth 232: Calculus II

Mth 233: Calculus III

Mth 123 (grade of A) → Mth 231 & Mth 229 → Mth 232 → Mth 233

OR Mth 130 → Mth 231 & Mth 229 → Mth 232 → Mth 233

OR Mth 123 (Grade B) → Mth 230 & Mth 229 → Mth 232 → Mth 233

There are three remedial (0 credit) mathematics courses:

- a. Elementary Algebra: Mth 020, 4 hrs (**For students who are not CUNY Math proficient**)
Note: Depending on student's performance on the CUNY Math Proficiency/ COMPASS exam, a student is eligible to take this course either in CUNY START, or in the summer or Winter Immersion Program or during the regular Fall/ Spring term in the Mathematics Department.

See Chart 1 Placement of non proficient students (www.math.csi.cuny.edu; advising documents)

A student becomes CUNY Math proficient after passing Mth 20.

Mth20 is a prerequisite course for all science and mathematics courses including general education science and math courses.

- b. Intermediate Algebra: Mth 30, 4hrs is a prerequisite course for Mth 123 which is required for Business, Computer Science, Economics, Psychology BS, Science, Math, Engineering, SLS and Technology majors.

- c. Intermediate Algebra Recitation:. Mth 35, 2 hours. It is not a standalone course. Mth 123 is a corequisite for this course. Better prepared students exiting Mth 20 with a grade of S or new students who are proficient but do not qualify for Mth 123 can take this course with Mth 123 to accelerate their progression.

1.) Business Majors:

- a. 2 year students: Need one math course: **Mth 121 or Mth 123 Or any one of Mth 130,Mth 230 , Mth 231.**

- b. 4 yr students: Need two math courses..

The possible sequences are:

(i) **Mth 121 - Mth 221**

OR (ii) Mth 123 - Mth 130

OR (iii) Mth 123 - Mth 221 (Need a waiver for Mth 221,)

OR (iv) Mth 130 – Mth 231

OR (v) Mth 231- Mth 232

Note: Math dept recommends: Mth 121 - Mth 221 for Business students; Students with very good math background should be placed in Calculus I, Mth231. But they must be prepared to take Calculus I and Calculus II.

2.) Economics BA and Economics B.S. :

Need one math course, preferably the highest mathematics course they qualify for such as Calculus 1. However, Mth 121 or Mth 123 are acceptable for the degree. There is a prereq of Mth 121/123 for some economics courses.

3a.) Psychology BA.:

Need one math course, **Mth 113** or **Mth 123**
From Fall 2015 the requirement is Mth 123

3b .) Psychology BS.

Need one math course, **Mth 123**

4.) Liberal Arts Majors:

Need one math course: Any 3 credit math course at 100 level or higher. Recommended courses are **Mth 102** or **Mth 113** or **Mth 123.**

Students with good math background should consider taking **Mth 123** or **Mth 130** or **Mth 231**

5.) Nursing Majors:

- 4 yrs: Need one math courses. **Mth 113**

6.) SLS Majors: (Elementary School teachers)

Need three math courses:

a. **Mth 123**

b. **Mth 217**

c. **Mth 218**

All waivers to be granted by SLS coordinator.

7.) **Sciences, Engineering, Computer Science:**

Need Calculus sequence. Also several upper level courses are required for Chemistry, Physics, Engineering, Computer Science, etc. (see catalog)

Calculus Sequence: **Mth 229**

(**Mth 231**

OR

Mth 230 (PreCalculus with Calculus I)

Mth 232

Mth 233

Exceptions:

(i) **Biology** requires **Mth 229**, (**Mth 231 OR Mth 230**) and [**Mth 214** or **Bio 272 (Bio Statistics)**]

(ii) **Computer Science** additionally requires **CSC/Mth 228**

8) **2 yr Computer Technology Program:**

Need three math courses:

CSC/Mth 228

Mth 231

and **Mth 229**

9) **2 yr Electrical Eng Technology programs:**

Need at least seven math credits from the courses Mth 123, 130, 229, 230, 231.

10. **4 yr Medical Technology (BS) Program:**

Need: **Mth 214 or Bio 272**

NOTES:

Mth 230 is not open to students who took Mth 130

About repeating courses: If you receive an F in a course and then retake it and get a C or better, the original F will remain on transcript but will not be computed into the GPA. This can only be used for 16 credits for courses repeated at the same school.