Mathematics, BA

Academic Plan: MAT-BA
Program Code: 34030

This degree map is a term-by-term sample course schedule designed to assist you and your advisor in planning your 4-year academic path to graduation with a Mathematics Degree.
You and your advisor will use it, along with the program of study for your major (found in the Lehman Catalog for the year of your major declaration) and Degree Works (degree audit system), to formulate your customized plan.

30	**CUNY Common Core Credits**
12	**Lehman College Option Credits**
43-47	**Major Credits**
12	**Minor or Certificate Credits (recommended)**
19-23	**Elective Credits**

LEGEND:
Course Abbreviation Credits
Class Name
Blue: Lehman Core Requirement (LCR)
Requirement fulfilled
Green: Major Requirement
Gold: Elective, Minor, or Certificate
- see footnote
Underlined information is hyperlinked

FRESHMAN

FALL

ENG 111 3 CR
English Composition I
Required Core – Communication

LCR 3 CR
Flexible Core – World Cultures and Global Issues

LCR 3 CR
Flexible Core – Creative Expression

MAT 108 and **MAT 171** or **MAT 172** [3] 4-6 CR
Trigonometry and Elements of Precalculus or Precalculus

Elective 3 CR
LEH 100 (recommended)
The Liberal Arts - Freshman Seminar

SPRING

ENG 121 3 CR
English Composition II
Required Core – Communication

LCR 3 CR
Flexible Core - US Experience in Its Diversity

LCR 3 CR
Flexible Core – Individual and Society

MAT 175- **LCR** 4 CR
Calculus I
Flexible Core – Any Area [1]

MAT 155 1 CR
Calculus Lab I

16 FALL CREDITS + 14 SPRING CREDITS = 30 CREDITS

SOPHOMORE

FALL

LCR 3 CR
Foreign Language I
Required Core - Foreign Language

LCR 3 CR
Required Core – Life and Physical Science

CMP 167 3 CR
Programming Methods I

MAT 176 4 CR
Calculus II

MAT 156 1 CR
Calculus Lab II

SPRING

LCR 3 CR
Foreign Language II
Required Core - Foreign Language

LCR 3 CR
Flexible Core – Scientific World

MAT 226 4 CR
Vector Calculus

MAT 313 4 CR
Elements of Linear Algebra

Elective 3 CR

30 PRIOR CREDITS + 14 FALL CREDITS + 17 SPRING CREDITS = 61 CREDITS

JUNIOR

FALL

LCR **LEH 352, 353, 354, or 355** [2] *Lehman College Option*	3 CR
MAT 320 Analysis I	4 CR
MAT 323 or MAT 330 or MAT 424 Probability and Statistics or Ordinary Differential Equations or Partial Differential Equations and Applications	4 CR
Elective	4 CR

SPRING

LCR **LEH 352, 353, 354, or 355** [2] *Lehman College Option*	3 CR
MAT 314 Algebra and Number Systems I	4 CR
MAT 2##, 3## or 4## [4] Major Electives	4 CR
Elective	3 CR

61 PRIOR CREDITS + 15 FALL CREDITS + 14 SPRING CREDITS = 90 CREDITS

SENIOR

FALL

MAT 2##, 3## or 4## [4] Major Electives	4 CR
MAT 2##, 3## or 4## [4] Major Electives	4 CR
Minor or Certificate Course I [5]	3 CR
Minor or Certificate Course II [5]	3 CR

SPRING

MAT 2##, 3## or 4## [4] Major Electives	4 CR
Elective	3 CR
Elective	3 CR
Minor or Certificate Course III [5]	3 CR
Minor or Certificate Course IV [5]	3 CR

90 PRIOR CREDITS + 14 FALL CREDITS + 16 SPRING CREDITS = 120 CREDITS

[1] No more than two courses in one discipline may be used to satisfy Flexible Core requirements.

[2] These are variable topics courses, where each section treats a special topic. Pre-requisite: You must have achieved 60 credits and declared your major. Integration Courses: LEH 352: Studies in Literature; LEH 353: Studies in Arts; LEH 354: Studies in Historical Studies; LEH 355: Studies in Philosophy, Theory & Abstract Thinking (LEH 351: Studies in Science & Applied Perspectives, is NOT a College Option for this Major).

[3] Students may take both MAT 108 and MAT 171 together to satisfy the Precalculus requirement

[4] Select four MAT courses (12-16 credits total) from 200-Level or higher. **NOTE: MAT 231, MAT 300; MAT 301; MAT 328 and MAT 348 will not count.

[5] We strongly recommend clustering 12- 15 elective credits to obtain a minor or certificate that complements your general and major field of study. The choice of the minor or certificate depends on your interest and should be coordinated with advisors. See information on available minors and certificates.

NOTE: Mathematics majors pursuing NYS teaching certification should consult with their education program adviser before choosing the required elective courses.

Writing Intensive Sections: Complete 4 sections designated as writing-intensive, 3 prior to earning 60 credits and 1 following. These sections may be searched by class attribute and are offered in General Education, major, minor and elective courses.

See other degree maps.