

Baruch COLLEGE

BA IN MATHEMATICS

42 Pathways Credits

9 Pre-Weissman Credits

26 Major Credits

43 Elective Credits

The degree map is a suggested term-by-term sample course schedule. Use the Degree Map along with DegreeWorks as tools to assist you in planning your academic path to graduation. You should customize your Degree Map to fit your individual needs.

Career related information can be found on the last page.

NOTE: A minimum 120 credits is required for the Bachelor of Arts (BA) degree. **A minimum of 90 liberal arts credits is required for the BA.** FYS 1000 is a requirement for the first term at Baruch College and **MUST** be completed in order to graduate.

FALL

SPRING

FIRST YEAR

ENG 2100 Writing I ENGLISH COMPOSITION I	3 CR	ENG 2150 Writing II ENGLISH COMPOSITION II	3 CR
MTH 2610 Calculus I MATH & QUANTITATIVE REASONING	4 CR	MTH 3010 Elementary Calculus II PROGRAM PREREQUISITE REQUIREMENT	4 CR
Flexible Core Course PATHWAYS REQUIREMENT	3 CR	COM 1010 Speech Communication PRE-WEISSMAN REQUIREMENT	3 CR
Flexible Core Course PATHWAYS REQUIREMENT	3 CR	Flexible Core Course PATHWAYS REQUIREMENT	3 CR
Flexible Core Course PATHWAYS REQUIREMENT	3 CR	Flexible Core Course PATHWAYS REQUIREMENT	3 CR
FYS 1000 First Year Seminar DEGREE REQUIREMENT	0 CR		

16 FALL CREDITS + 16 SPRING CREDITS = 32 CREDITS

FALL

SPRING

SOPHOMORE

MTH 3020 Intermediate Calculus PROGRAM PREREQUISITE REQUIREMENT	4 CR	MTH 3300 Algorithms, Computers, and Prog I MAJOR REQUIREMENT	3 CR
Free Elective* ELECTIVE REQUIREMENT	3 CR	Free Elective* ELECTIVE REQUIREMENT	3 CR
Foreign Language I 1 st Semester of Foreign Language PRE-WEISSMAN REQUIREMENT	3 CR	Liberal Arts Elective ELECTIVE REQUIREMENT	3 CR
Life and Physical Sciences Natural Sciences Lab Course PATHWAYS REQUIREMENT	3 CR	Foreign Language II 2 nd Semester of Foreign Language PRE-WEISSMAN REQUIREMENT	3 CR
Scientific World Natural Sciences Lecture Course PATHWAYS REQUIREMENT	3 CR	MTH 4100 Linear Algebra & Matrix Methods MAJOR REQUIREMENT	3 CR

32 PRIOR CREDITS + 16 FALL CREDITS + 15 SPRING CREDITS = 63 CREDITS

*Free Electives can be any business, liberal arts, or public affairs course

FALL

SPRING

JUNIOR

Liberal Art Minor Course
PATHWAYS COLLEGE OPTION REQUIREMENT

3 CR

Major Elective
MAJOR REQUIREMENT

4 CR

Major Elective
PRE-REQUISITE TO MTH 4010

3 CR

Free Elective*
ELECTIVE REQUIREMENT

3 CR

Free Elective*
ELECTIVE REQUIREMENT

3 CR

**ENG 2800, CMP 2800,
ENG 2850, or CMP 2850** 3 CR

Great Works of Literature I or II
PATHWAYS COLLEGE OPTION REQUIREMENT

MTH 4010 4 CR

Mathematical Analysis I
MAJOR REQUIREMENT

MTH 4100 3 CR

Linear Algebra and Matrix Methods
MAJOR REQUIREMENT

Liberal Art Minor Course 3 CR
PATHWAYS COLLEGE OPTION REQUIREMENT

Free Elective* 3 CR
ELECTIVE REQUIREMENT

63 PRIOR CREDITS + 17 FALL CREDITS + 16 SPRING CREDITS = 96 CREDITS

FALL

SPRING

SENIOR

Major Elective
MAJOR REQUIREMENT

3 CR

Free Elective*
ELECTIVE REQUIREMENT

3 CR

Liberal Art Minor Capstone
PATHWAYS COLLEGE OPTION REQUIREMENT

3 CR

Free Elective*
ELECTIVE REQUIREMENT

3 CR

Major Elective 4 CR
MAJOR REQUIREMENT

Free Elective* 3 CR
ELECTIVE REQUIREMENT

Free Elective* 3 CR
ELECTIVE REQUIREMENT

Free Elective* 3 CR
ELECTIVE REQUIREMENT

96 PRIOR CREDITS + 12 FALL CREDITS + 12 SPRING CREDITS = 120 CREDITS

*Free Electives can be any business, liberal arts, or public affairs course

THINGS TO TAKE NOTE OF

General Notes

- Students interested in this major should consult with the Math Department, located in VC 6-230
- Students majoring in Mathematics must meet with an advisor in the Mathematics Department to fill out a major declaration form
- You must complete a liberal arts minor as part of the College Option requirement to graduate. Since you are majoring in Math, you cannot minor in Math.
- Students who receive credit for Math 2205, 2206, or 2207 with a grade of C+ or higher, will take Math 3006 instead of Math 3010, and Math 3030 instead of Math 3020

The following subjects are considered liberal arts and can be taken at any level to satisfy liberal arts electives:

AAS	ANT	ART	BIO	BLS	CHM	COM
CMP	ECO	ENG	ENV	FLM	FPA	GLS
HED	HIS	HSP	IDC	JRN	LACS	LIB
LTS	MSC	MTH	NMA	PHI	PHY	POL
PSY	REL	SOC	THE	WSM	ALL MODERN LANGUAGES	

The following courses are **not** considered liberal arts:

ART 5010	ART 5011	COM 4059	ECO 5010	ECO 5011	FPA 5070	FPA 5071	HED 1810
HED 2920	MSC 2061	MSC 2062	MSC 2063	MSC 2064	MSC 5050	MSC 5051	SOC 4085
SOC 4086	THE 3046	THE 3056	ART/MSC/THE Studio Elective Courses				

Career Exploration

The study of mathematics is excellent preparation for a host of employment opportunities in business, finance, insurance, technology, scientific research, and any field that has challenging problems to solve. There is a steady, strong demand for math majors. These careers focus on discovering the essence of problems, synthesizing general theories to address problems, and applying quantitative reasoning across a variety of situations.

5 Career Options for Mathematics Majors

1. Data Analyst
2. Investment Banker
3. Simulation Modeler
4. Operations Manager
5. Compensation Analyst

5 Top Skills for Mathematics Majors

1. Analysis
2. Communication
3. Problem Solving
4. High Computer Proficiency
5. Modeling

[Additional Career Information for Mathematics Majors](#)