Baruch COLLEGE

BA IN MATHEMATICS

42 Pathways Credits

9 Pre-Weissman Credits

27 Major Credits

42 Elective Credits

The degree map is a term-by-term sample course schedule to make it easier for you to understand how to graduate in four years with a Mathematics major. Use the Degree Map along with DegreeWorks as tools to assist you in planning your academic path to graduation. Your specific program of study could, and probably will, look different. You need to customize your Degree Map to fit your individual needs.

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.

Baruch COLLEGE

BA IN MATHEMATICS

COURSE ABBREVIATION
Class Name CREDITS
REQUIREMENT FULFILLED

DEGREE MAP

FRESHMAN

FALL

ENG 2100 3 CR
Writing I
ENGLISH COMPOSITION I

MTH 2003 3 CR
Pre-Calculus and Elements of Calculus
MATH & QUANTITATIVE REASONING

Flexible Core Course 3 CR
PATHWAYS REQUIREMENT

Flexible Core Course 3 CR
PATHWAYS REQUIREMENT

Flexible Core Course 3 CR
PATHWAYS REQUIREMENT

FYS 1000 0 CR
First Year Seminar
DEGREE REQUIREMENT

SPRING

ENG 2150 3 CR
Writing II
ENGLISH COMPOSITION II

MTH 2205 3 CR
Applied Calculus II
ELECTIVE REQUIREMENT

COM 1010 3 CR
Speech Communication
PRE-WEISSMAN REQUIREMENT

Flexible Core Course 3 CR
PATHWAYS REQUIREMENT

Flexible Core Course 3 CR
PATHWAYS REQUIREMENT

15 FALL CREDITS + 15 SPRING CREDITS = 30 CREDITS

SOPHOMORE

FALL

MTH 3006 4 CR
Integral Calculus
ELECTIVE REQUIREMENT

Free Elective* 3 CR
ELECTIVE REQUIREMENT

Foreign Language I 3 CR
1st Semester of Foreign Language
PRE-WEISSMAN REQUIREMENT

Life and Physical Sciences 3 CR
Natural Sciences Lab Course
PATHWAYS REQUIREMENT

Scientific World 3 CR
Natural Sciences Lecture Course
PATHWAYS REQUIREMENT

SPRING

MTH 3300 3 CR
Algorithms, Computers, and Prog I
ELECTIVE REQUIREMENT

Free Elective* 3 CR
ELECTIVE REQUIREMENT

Liberal Arts Elective 3 CR
ELECTIVE REQUIREMENT

Foreign Language II 3 CR
2nd Semester of Foreign Language
PRE-WEISSMAN REQUIREMENT

MTH 3030 5 CR
Analytic Geometry and Calc II
MAJOR REQUIREMENT

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

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

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BA IN MATHEMATICS

COURSE ABBREVIATION
Class Name CREDITS
REQUIREMENT FULFILLED

DEGREE MAP

JUNIOR

FALL		SPRING	
Liberal Arts Minor Course College Option Course #4 PATHWAYS REQUIREMENT	3 CR	**ENG 2800, CMP 2800, ENG 2850, or CMP 2850** Great Works of Literature I or II PATHWAYS REQUIREMENT	3 CR
Major Elective MAJOR REQUIREMENT	4 CR	**Major Elective** MAJOR REQUIREMENT	4 CR
MTH 4010 Introduction to Probability MAJOR REQUIREMENT	4 CR	**MTH 4100** Linear Algebra and Matrix Methods MAJOR REQUIREMENT	3 CR
Free Elective* ELECTIVE REQUIREMENT	3 CR	**Liberal Arts Minor Course** College Option Course #3 PATHWAYS REQUIREMENT	3 CR
Free Elective* ELECTIVE REQUIREMENT	3 CR	**Free Elective*** ELECTIVE REQUIREMENT	3 CR

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

SENIOR

FALL		SPRING	
Major Elective MAJOR REQUIREMENT	3 CR	**Major Elective** MAJOR REQUIREMENT	4 CR
Free Elective* ELECTIVE REQUIREMENT	3 CR	**Free Elective*** ELECTIVE REQUIREMENT	3 CR
Liberal Arts Minor Capstone College Option Course #2 PATHWAYS REQUIREMENT	3 CR	**Free Elective*** ELECTIVE REQUIREMENT	2 CR
Free Elective* ELECTIVE REQUIREMENT	3 CR	**Free Elective*** ELECTIVE REQUIREMENT	3 CR

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

- All Weissman School of Arts and Science majors require completion of at least 90 credits of liberal arts courses
- Your major must be at least 24 credits
- **Be sure to consult with the Math Department faculty advisor regarding specific major requirements (VC 6-230)**
- You must complete a liberal arts minor as part of the College Option requirement to graduate
- You must maintain a 2.0 Baruch GPA in order to remain in Good Academic Standing. You must also maintain a 2.0 major GPA in order to graduate
- FYS 1000 (First Year Seminar) is a required course for all students who entered as new freshmen. Transfer students are not required to take this course
- Consult with the Undergraduate Bulletin to check course descriptions for prerequisites and restrictions: https://www.baruch.cuny.edu/bulletin/

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	HED
HIS	HSP	IDC	JRN	LACS	LIB	LTT
LTS	MSC	MTH	PHI	PHY	POL	PSY
	REL	SOC	THE	NSC	WSM	

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

ART 3059	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				

Notes about the Major

- In order to take MTH 3006 (Integral Calculus), students must obtain a grade of C+ or higher in MTH 2205 or MTH 2207.
- In order to take MTH 3030 (Analytic Geometry and Calculus II), students must attain a grade of C- or higher in MTH 3006.
- The following courses are offered infrequently and are subject to student demand:

MTH 4145	Mathematical Modeling
MTH 4240	Differential Geometry
MTH 4300	Algorithms, Computers and Programming II
MTH 5010	Advanced Calculus III
MTH 5020	Theory of Functions of a Complex Variable
MTH 5030	Theory of Functions of Real Variables
MTH 5100	Partial Differential Equations