

Baruch COLLEGE

BS IN FINANCIAL MATHEMATICS

43 Pathways Credits

9 Pre-Weissman Credits

15 Program Pre-requisite Credits

45 Major Credits

8 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 Financial 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 Science in Financial Mathematics (BSFM) degree. A minimum of 90 liberal arts credits is required for the BSFM. FYS 1000 is a requirement for the first term at Baruch College and MUST be completed in order to graduate.

FALL

ENG 2100 Writing I ENGLISH COMPOSITION I	3 CR
MTH 2610 Calculus I MATH & QUANTITATIVE REASONING	4 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

FRESHMAN

SPRING

ENG 2150 Writing II ENGLISH COMPOSITION II	3 CR
Flexible Core Course PATHWAYS REQUIREMENT	3 CR
MTH 3010 Calculus II PROGRAM PRE-REQUISITE REQUIREMENT	4 CR
Foreign Language I 1st Semester of Foreign Language PRE-WEISSMAN REQUIREMENT	3 CR
Flexible Core Course PATHWAYS REQUIREMENT	3 CR

16 FALL CREDITS + 16 SPRING CREDITS = 32 CREDITS

FALL

MTH 3050 Multi-Variable & Vector Calculus PROGRAM PRE-REQUISITE REQUIREMENT	4 CR
Foreign Language II 2nd Semester of Foreign Language PRE-WEISSMAN REQUIREMENT	3 CR
ECO 1001 Microeconomics MAJOR REQUIREMENT	3 CR
Liberal Arts Elective ELECTIVE REQUIREMENT	4 CR
COM 1010 Speech Communication PRE-WEISSMAN REQUIREMENT	3 CR

SOPHOMORE

SPRING

ECO 1002 Macroeconomics MAJOR REQUIREMENT	3 CR
MTH 4000 Interpersonal Communication PROGRAM PRE-REQUISITE REQUIREMENT	4 CR
ACC 2101 Principles of Accounting ELECTIVE REQUIREMENT	3 CR
MTH 3300 Algorithms, Computers, & Prog. I PROGRAM PRE-REQUISITE REQUIREMENT	3 CR
MTH 4100 Linear Algebra MAJOR REQUIREMENT	3 CR

32 PRIOR CREDITS + 17 FALL CREDITS + 16 SPRING CREDITS = 65 CREDITS

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

FALL

Liberal Arts Minor Course College Option Course #4 PATHWAYS REQUIREMENT	3 CR
MTH 4115 Communication Law MAJOR REQUIREMENT	4 CR
MTH 4120 Introduction to Probability MAJOR REQUIREMENT	4 CR
MTH 4300 Algorithms, Computers, and Prog. II MAJOR REQUIREMENT	3 CR

JUNIOR

SPRING

ENG 2800, CMP 2800, ENG 2850, or CMP 2850 Great Works of Literature I or II PATHWAYS REQUIREMENT	3 CR
FIN 3000 Principles of Finance MAJOR REQUIREMENT	3 CR
MTH 4125 Mathematical Finance MAJOR REQUIREMENT	4 CR
Liberal Arts Minor Course College Option Course #3 PATHWAY REQUIREMENT	3 CR
MTH 4130 Mathematics for Statistics MAJOR REQUIREMENT	4 CR

65 PRIOR CREDITS + 14 FALL CREDITS + 17 SPRING CREDITS = 96 CREDITS

FALL

FIN 3610 Corporate Finance MAJOR REQUIREMENT	3 CR
MTH 4500 Introductory Financial Mathematics MAJOR REQUIREMENT	4 CR
Life and Physical Sciences Natural Sciences Lab Course PATHWAYS REQUIREMENT	3 CR
Scientific World Natural Sciences Lecture Course PATHWAYS REQUIREMENT	3 CR

SENIOR

SPRING

MTH 4600 Data Analysis and Simulation MAJOR REQUIREMENT	4 CR
Free Elective* ELECTIVE REQUIREMENT	1 CR
MTH 5500 Stochastic Calculus for Finance MAJOR REQUIREMENT	3 CR
Liberal Arts Minor Capstone College Option Course #2 PATHWAYS REQUIREMENT	3 CR

96 PRIOR CREDITS + 13 FALL CREDITS + 11 SPRING CREDITS = 120 CREDITS

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

THINGS TO TAKE NOTE OF

General Notes

- o All Weissman School of Arts and Science majors require completion of at least 90 credits of liberal arts courses
- o Your major must be at least 24 credits
- o **Be sure to consult with the Math Department faculty advisor regarding specific major requirements (VC 6-230)**
- o You must complete a liberal arts minor as part of the College Option requirement to graduate
- o 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
- o 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
- o 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

- A combined GPA of 3.5 or higher in MTH 2610 (Calculus I) and MTH 3010 (Calculus II) is required to complete the pre-requisite requirement for the major.
- Students must pass MTH 3010 with a B+ or higher in order to take MTH 3050 (Multi-Variable and Vector Calculus).
- To gain official admission to the program, students must complete MTH 3050 and MTH 4000 (Bridge to Higher Mathematics) with a minimum grade of B in each course.
- Completion of MTH 4120 (Introduction to Probability) satisfies the STA 2000 (Business Statistics) prerequisite for FIN 3000.
- **The BSFM is the only Bachelor of Science (BS) Program offered through the Weissman School of Arts and Sciences and follows the Weissman base curriculum.**