

Baruch COLLEGE

BA IN ACTUARIAL SCIENCE

42 Pathways Credits

9 Pre-Weissman Credits

29 Major Credits

40 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.

BA IN ACTUARIAL SCIENCE

DEGREE MAP

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 ELECTIVE 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 ELECTIVE REQUIREMENT	4 CR	ECO 1002 Macroeconomics PROGRAM PREREQUISITE TO ENROLL IN FIN 3000	3 CR
ECO 1001 Microeconomics PROGRAM PREREQUISITE TO ENROLL IN FIN 3000	3 CR	MTH 4410 Theory of Interest MAJOR REQUIREMENT	4 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 4120 Introduction to Probability MAJOR REQUIREMENT	4 CR

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

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

BA IN ACTUARIAL SCIENCE

DEGREE MAP

FALL

Liberal Art Minor Course 3 CR
PATHWAYS COLLEGE OPTION REQUIREMENT

MTH 3300 3 CR
Algorithms, Computers and Programming I
MAJOR REQUIREMENT

MTH 4500 4 CR
Introductory Financial
Mathematics
MAJOR REQUIREMENT

ACC 2101 3 CR
Principles of Accounting
PROGRAM PREREQUISITE TO ENROLL IN
FIN 3000

Free Elective* 3 CR
ELECTIVE REQUIREMENT

SPRING

ENG 2800, CMP 2800, 3 CR
ENG 2850, or CMP 2850
Great Works of Literature I or II
PATHWAYS COLLEGE OPTION REQUIREMENT

FIN 3000 3 CR
Principles of Finance
BUSINESS PROGRAM PREREQUISITE

Major Requirement 4 CR
MAJOR REQUIREMENT

Liberal Art Minor Course 3 CR
PATHWAYS COLLEGE OPTION REQUIREMENT

Free Elective* 3 CR
ELECTIVE REQUIREMENT

JUNIOR

65 PRIOR CREDITS + 16 FALL CREDITS + 16 SPRING CREDITS = 97 CREDITS

FALL

FIN 3610 3 CR
Corporate Finance
BUSINESS PROGRAM PREREQUISITE

Major Requirement 3 CR
MAJOR REQUIREMENT

Liberal Art Minor Capstone 3 CR
PATHWAYS COLLEGE OPTION REQUIREMENT

Free Elective 3 CR
ELECTIVE REQUIREMENT

SPRING

Major Elective 3 CR
MAJOR REQUIREMENT

Free Elective* 3 CR
ELECTIVE REQUIREMENT

Free Elective* 3 CR
ELECTIVE REQUIREMENT

Free Elective* 2 CR
ELECTIVE REQUIREMENT

SENIOR

97 PRIOR CREDITS + 12 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

- Students majoring in Actuarial Science must meet with a Faculty Advisor in the Mathematics Department, located in VC 6-230, 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 Actuarial Science, you cannot minor in math.
- 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
- Students who receive credit for MTH 2205, 2206, or 2207 with a grade of C+ or higher must take MTH 3006 and MTH 3030 instead of MTH 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				

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.
- Completion of MTH 4120 (Introduction to Probability) satisfies the STA 2000 (Business Statistics) prerequisite for FIN 3000.

Career Exploration

Actuarial Science is the analysis of mathematical data to predict the likelihood of certain events, such as death, accident, or disability. Essentially, actuarial science is the statistical and mathematical underpinning of every kind of insurance: health insurance, life insurance, property insurance, pension plans, etc. Insurance companies are the main employers of actuaries and they determine how much the insurers charge for policies.

5 Career Options for Actuarial Science Majors

1. Actuary
2. Economist
3. Financial Planner
4. Researcher
5. Statistician

5 Top Skills for Actuarial Science Majors

1. Analysis
2. Critical Thinking
3. Detail Oriented
4. Database Management
5. Mathematics