

# Baruch COLLEGE

## BA IN BIOLOGICAL SCIENCES

**44.5** Pathways Credits

**9** Pre-Weissman Credits

**16.5** Program Pre-requisite Credits

**27** Major Credits

**23** 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

<b>ENG 2100</b> Writing I ENGLISH COMPOSITION I	3 CR
<b>MTH 2003</b> Pre-Calculus & Elements of Calculus MATH & QUANTITATIVE REASONING	3 CR
<b>Flexible Core Course</b> PATHWAYS REQUIREMENT	3 CR
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<b>FYS 1000</b> First Year Seminar DEGREE REQUIREMENT	0 CR

<b>ENG 2150</b> Writing II ENGLISH COMPOSITION II	3 CR
<b>BIO 2010</b> Principles of Biology PATHWAYS REQUIREMENT	4.5 CR
<b>COM 1010</b> Speech Communication PRE-WEISSMAN REQUIREMENT	3 CR
<b>Foreign Language I</b> 1 <sup>st</sup> Semester of Foreign Language PATHWAYS REQUIREMENT	3 CR
<b>Flexible Core Course</b> PATHWAYS REQUIREMENT	3 CR

15 FALL CREDITS + 16.5 SPRING CREDITS = 31.5 CREDITS

### FALL

### SPRING

SOPHOMORE

<b>Flexible Core Course</b> PATHWAYS REQUIREMENT	3 CR
<b>Foreign Language II</b> 2 <sup>nd</sup> Semester of Foreign Language PRE-WEISSMAN REQUIREMENT	3 CR
<b>BIO 2100 or PSY 2100</b> Statistics for Social Sciences MAJOR REQUIREMENT	3 CR
<b>BIO 3001</b> Principles of Biology II PROGRAM PRE-REQUISITE REQUIREMENT	4.5 CR
<b>CHM 2003</b> General Chemistry I PATHWAYS REQUIREMENT	4 CR

<b>BIO 3015</b> Principles of Genetics MAJOR REQUIREMENT	4 CR
<b>CHM 3001</b> General Chemistry II PROGRAM PRE-REQUISITE REQUIREMENT	4 CR
<b>PHY 2003</b> General Physics I PROGRAM PRE-REQUISITE REQUIREMENT	4 CR
<b>Free Elective*</b> ELECTIVE REQUIREMENT	3 CR
<b>Free Elective*</b> ELECTIVE REQUIREMENT	3 CR

31.5 PRIOR CREDITS + 17.5 FALL CREDITS + 18 SPRING CREDITS = 67 CREDITS

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

		<b>FALL</b>			<b>SPRING</b>
<b>JUNIOR</b>	<b>Liberal Art Minor Course</b> PATHWAYS COLLEGE OPTION REQUIREMENT	3 CR	<b>ENG 2800, CMP 2800,</b>	3 CR	
	<b>CHM 3003</b> Principles of Organic Chemistry I PROGRAM PRE-REQUISITE REQUIREMENT	4 CR	<b>ENG 2850, or CMP 2850</b> Great Works of Literature I or II PATHWAYS COLLEGE OPTION REQUIREMENT		
	<b>Major Elective</b> MAJOR REQUIREMENT	4 CR	<b>Free Elective*</b> ELECTIVE REQUIREMENT	3 CR	
	<b>Free Elective*</b> ELECTIVE REQUIREMENT	3 CR	<b>Major Elective</b> MAJOR REQUIREMENT	4 CR	
			<b>Liberal Art Minor Course</b> PATHWAYS COLLEGE OPTION REQUIREMENT	3 CR	

67 PRIOR CREDITS + 14 FALL CREDITS + 13 SPRING CREDITS = 94 CREDITS

		<b>FALL</b>			<b>SPRING</b>
<b>SENIOR</b>	<b>Major Elective</b> MAJOR REQUIREMENT	4 CR	<b>Major Elective</b> MAJOR REQUIREMENT	4 CR	
	<b>Free Elective*</b> ELECTIVE REQUIREMENT	3 CR	<b>Free Elective*</b> ELECTIVE REQUIREMENT	3 CR	
	<b>Liberal Art Minor Capstone</b> PATHWAYS COLLEGE OPTION REQUIREMENT	3 CR	<b>Major Elective</b> MAJOR REQUIREMENT	4 CR	
	<b>Free Elective*</b> ELECTIVE REQUIREMENT	3 CR	<b>Free Elective*</b> ELECTIVE REQUIREMENT	2 CR	

94 PRIOR CREDITS + 13 FALL CREDITS + 13 SPRING CREDITS = 120 CREDITS

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

# THINGS TO TAKE NOTE OF

## General Notes

- o **Be sure to consult with your faculty advisor regarding specific major requirements. Major courses must be approved by the faculty advisor.**
- o You must complete a liberal arts minor as part of the College Option requirement to graduate. Since you are majoring in Biology, you cannot minor in Natural Sciences.
- 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

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

- Electives may change for the final semester depending on the number of credits previously taken to satisfy major requirements. i.e. If a student takes a 4 credit major course, then the free elective credit is reduced
- Students with credit for MTH 2000 or MTH 2001 must complete a calculus course
- The major includes five elective courses, at least two of which must be at the 4000-level or higher, chosen from the approved list of major electives
- Interested students should contact the Department of Natural Sciences at 646 660-6250 (17 Lexington Avenue, Room 506)

## Career Exploration

Biological Sciences prepares students for careers or advanced studies in many science and health-related industries. Professionals are taught to ask questions, make observations, evaluate evidence, and solve problems common in the physical world. Students can pursue careers in health-related fields such as biological research, dentistry, veterinary medicine, and nursing but also non-health-related fields including law, journalism, and policy.

### 5 Career Options for Biological Sciences Majors

1. Auditor/Audit Manager
2. Certified Public Accountant
3. Financial Planner
4. Payroll Manager
5. Tax Compliance Specialist

### 5 Top Skills for Biological Sciences Majors

1. Critical Thinking
2. Computer Proficiency
3. Problem Solving
4. Detail-Oriented
5. Oral & Written Communications

[Additional Career Information for Biological Sciences Majors](#)

# Your 3 Semester Plan

Major \_\_\_\_\_

Minor \_\_\_\_\_

Minimum Credits Needed **45** Planned Credits \_\_\_\_\_

Chart Your Course  
to On-time Graduation



Before You Begin...	
<b>Instructions</b>	1. Review the previous pages of the Degree Map 2. Use DegreeWorks to review your degree requirements 3. Check the Undergraduate Bulletin for up-to-date requirements in major/minors 4. Remember Flexible Core restrictions 5. You are allowed 18 credits maximum without permission 6. Plan ahead from Spring 2021 - Fall 2021 with <b>45</b> credits minimum to be completed by the end of Fall 2021

<b>Transferred</b>	AP/College Now	CR	AP/College Now	CR	AP/College Now	CR	AP/College Now	CR

AP/College Now Total

<b>First Year</b>		CR		CR		CR		CR
	LIMIT 2 COURSES IN THE WINTER			LIMIT 4 COURSES IN THE SUMMER				
	TOTAL			TOTAL			TOTAL	

<b>Sophomore Year</b>		CR	<b>Questions:</b>	
	TOTAL			

First Name \_\_\_\_\_  
 Last Name \_\_\_\_\_  
 EMPLID \_\_\_\_\_  
 Email Address \_\_\_\_\_

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