

Last 4 digits of ID

BIOLOGY MAJOR FOR HEALTH CARE PROFESSIONS REQUIREMENTS (total credits 72)

REQUIRED CORE COURSES

BIO 10100	4		CHEM 10301	4	
BIO 10200	4		CHEM 10401	4	
MATH 17300	4		PHYS 20300	4	
MATH 20500	4		PYYS 20400	4	

Biology required courses

BIO 20600	4		BIO 24800	4	
BIO 22900	4		BIO 24900	4	
BIO 24700	4				

Chemistry required courses

CHEM 26100	3		CHEM 26300 OR	3	
CHEM 26200	2		CHEM 32002		

B.A. BIOLOGY ELECTIVES (12 credits)

(Electives are continually evaluated; if it is not listed below, type ask the major advisor whether it can count)

SCI 28000	3		BIO 43000	3	
BIO 22800	4		BIO 45100	3	
BIO 33000	3		BIO 45400	3	
BIO 35100	3		BIO 46000	3	
BIO 35200	3		BIO 48000	3	
BIO 35400	4		BIO 48100	3	
BIO 37500	3		BIO 48300	5	
BIO 37800	3		BIO 48500	5	
BIO 37900	3		CHEM 44000	3	
BIO 38000	3		CHEM 44200	3	
BIO 40100	3		PHYS 31500	3	
BIO 41000	3		PHYS 42200	3	
BIO 42000	3		PHYS 42300	3	
BIO 42500	3				

Independent Study/Honors Research courses (BIO 30100 can be taken multiple times but only 6 cr will count towards the major): 6 cr only towards major

BIO 30100	3		BIO 30300	3	
BIO 30200	3		BIO 31000	3	

***This student has fulfilled all requirements for the B.A.
Major in Biology***

Head Biology Major

Advisor Signature: _____ **Date:** _____

OTHER REQUIREMENTS

1. For general CCNY and Division of Science (B.A.) requirements, see Undergrad Bulletin.
2. To declare a major, you must successfully complete BIO10100/10200, CHEM 10301/10401, and MATH 17300 with a GPA of 2.0 or higher.
3. A 2.0 GPA in Biology courses is required to remain in the Major and to graduate.
4. To enroll in a lower-level Science course, students must pass all course prerequisites with a grade of 'C' or higher.
5. 60% of B.A. Biology major credits (i.e., 24 cr) MUST be taken at CCNY.

COURSE PLAN -- List all courses you've taken at CCNY. Then list all courses you plan to take up through the semester you intend to graduate.

Fall 202?	Spring 202?
Summer 202?	
Fall 202?	Spring 202?
Summer 202?	
Fall 202?	Spring 202?
Summer 202?	
Fall 202?	Spring 202?
Summer 202?	
Fall 202?	Spring 202?

Requirements for B.A. Biology Major

REQUIRED COURSES

BIOLOGY

BIO 10100 Biological Foundations I (4 cr)
BIO 10200 Biological Foundations II (4 cr)
BIO 20600 Introduction of Genetics (4 cr)
BIO 22900 Cell and Molecular Biology (4 cr)
BIO 24700 Human Anatomy & Physiology I (4 cr)
BIO 24800 Human Anatomy & Physiology II (4 cr)
BIO 24900 Microbiology for Healthcare Professionals (4 cr)

CHEMISTRY

CHEM 10301 General Chemistry I (4 cr)
CHEM 10401 General Chemistry II (4 cr)
CHEM 26100 Organic Chemistry I (3 cr)
CHEM 26200 Organic Chemistry Laboratory I (2 cr)
CHEM 26300 Organic Chemistry II (3 cr) OR
CHEM 32002 Biochemistry I (3 cr)

MATHEMATICS

MATH 17300 Introduction to Probability & Statistics (4 cr)
MATH 20500 Elements of Calculus I (4 cr)

PHYSICS

PHYS 20300 General Physics I (4 cr)
PHYS 20400 General Physics II (4 cr)
OR
PHYS 20700/20800 series (8 cr)

ADVANCED ELECTIVES (others possible with permission)

Biology

BIO 22800 Ecology & Evolution (4 cr)
BIO 35000 Microbiology (4 cr)
BIO 33000 Survey of the Vertebrates (3 cr)
BIO 35200 Introduction to Immunology (3 cr)
BIO 35400 Introduction to Neurobiology (3 cr)
BIO 37500 Developmental Biology (3 cr)
BIO 37800 Science of Sex & Gender (3 cr)
BIO 37900 Developmental Neurobiology (3 cr)
BIO 38000 Eukaryotic Genetics (4 cr)
BIO 40100 Cardiovascular, Renal, & Respiratory Physiology (3 cr)
BIO 41000 Cell Development and Senescence (3 cr)
BIO 42000 Virology (3 cr)
BIO 42500 Cancer Biology (3 cr)
BIO 43000 Genetics of Prokaryotes (3 cr)
BIO 45100 Movement & Muscle (3 cr)
BIO 45400 Sensory Perception (3 cr)
BIO 46000 Animal Behavior (3 cr)
BIO 48000 Current Topics in Microbial Genetics (3 cr)
BIO 48100 Epigenetics (3 cr)
BIO 48300 Laboratory in Biotechnology (5 cr)

Chemistry

CHEM 26300 Organic Chemistry II OR CHEM 32002 Biochemistry I (whichever was NOT taken as required course; 3 cr)
CHEM 44000 Journey to the Center of the Cell (3 cr)
CHEM 44200 RNA Biochemistry & Molecular Biology (3 cr)

Physics

PHYS 42200 Biophysics (3 cr)
PHYS 42300 Biophysics in Applications (3 cr)

SCIENCE 28000 Bioinformatics and Biomolecular Systems (3 cr)

RESEARCH COURSES (6 cr required)

BIO/CHEM/PHYS 301-303 Honors I-III (*maximum 6 cr towards major*)
BIO/CHEM/PHYS 310 Independent Study (1-3 cr/semester; *maximum 6 cr towards major*)