B.A. Human Biology Health and Society (52 – 54 credits) 2021 – 2022

Biotechnology Concentration

	Course No.	Course Title	Credits	Co/Pre-reqs	Year/Semester Taken
❑	BIOL 108	Biology for the Informed Citizen	3	Co-Req: WRIT 101/102 & MATH 141 or higher	
❑	BIOL 220	General Biology I (with lab)	4	Co-Req: WRIT 101 & MATH 141	
❑	BIOL 222	General Biology II (with lab)	4	Pre-Req: BIOL 220	
❑	BIOL 240	Cellular and Molecular Biology (with lab)	4	Pre-Req: BIOL 220, BIOL 222 & CHEM 233/234	
❑	BIOL 332	Bioethics	3	MATH 113 or higher, 100/200 level BIOL course	
❑	BIOL 251	Laboratory Research Methods I	2	Pre-Req: BIOL 220, MATH 141 or higher	
❑	BIOL 252	Laboratory Research Methods II	2	Pre-Req: BIOL 220, Chem 103 or higher, MATH 141 or higher, Biol 252	
❑	CHEM 233	General Chemistry I	3	Co-Req: MATH 141 or 210 & CHEM 234	
❑	CHEM 234	General Chemistry I: Laboratory *(required to take concurrently with CHEM 233)*	1	Co-Req: CHEM 233	
❑	CHEM 235	General Chemistry II	3	Pre-Req: CHEM 233/234 Co-req: CHEM 236 & MATH 141 or 210	
❑	CHEM 236	General Chemistry II: Laboratory *(required to take concurrently with CHEM 235)*	1	Co-Req: CHEM 235	
❑	BIOL/MATH 218	Biostatistics	3	Pre-Req: MATH 141 or above	
❑	BIOL/CHEM 340	Introduction to Organic and Biochemistry	4	Pre-Req: CHEM 235/236	
❑	BIOL 425	Genetics	4	Pre-Req: WRIT 102 or 201, BIOL 220, BIOL 222, BIOL 240, CHEM 317/318	
❑	BIOL 397	Science Research	2		
❑	BIOL 497	Science Research	3		

Select (2) course from the following list:

CHEM/ENV 105 Chemistry and the Environment
NEU 348 Drugs and the Brain
ENV 310 Applied Environmental Science
PSYCH 201 Developmental Psychology
SOC 359 Race and Ethnicity
BIOL/NEU 335 Developmental Neurobiology
DANC 303 Anatomy I
PHYS 201 Introduction to Physics
PSYCH 243 Intro to Health Psychology

❑			3/4		
❑			3/4		

Notes: B.A. Biology majors are required to take MATH courses up to and <u>including</u> MATH 224. Depending on mathematical background, Biology majors should start at an appropriate place in the mathematics sequence. See Catalogue for more information

Human Biology Health and Society Major **52-54**

Electives (20 credits)

	Course No.	Course Title	Credits	Year / Semester Taken
❑			3	
❑			3	
❑			3	
❑			3	
❑			3	
❑			3	
❑			2	

Total Number of Credits Required for Graduation **120**

DIVISION OF THE SCIENCES
8 Semester Academic Plan
B.A. HUMAN BIOLOGY, HEALTH AND SOCIETY
(Biotechnology Concentration)

(Note: Courses highlighted in red/bolded should be taken in the semester indicated)

Freshman Year- Review your degree requirements; consider adding a minor			
Fall:		**Spring:**	
WRIT 101 Writing Seminar I or WRIT 201	3	**WRIT 102 Writing Seminar II**	3
NYC Seminar (DS Course)	3	**MATH 141 Precalculus**	3
MATH 113 or MATH 129	3	Elective in the Major	3
BIOL 108 Biology for the Informed Citizen	3	DS course	3
DS Course	3	DS course	3
Total	**15**	**Total**	**15**
Sophomore Year - Begin to explore internship or study abroad opportunities			
Fall:		**Spring:**	
BIOL 220 General Biology I	4	**BIOL 222 General Biology II**	4
CHEM 233 General Chemistry I **&** **CHEM 234 General Chemistry I Lab**	3 1	**CHEM 235 General Chemistry II** **&** **CHEM 236 General Chemistry II Lab**	3 1
DS Course	3	Elective	3
Elective	3	Elective	3
Elective	2		
Total	**16**	**Total**	**14**
Junior Year- Meet with Career Services or your Advisor to begin exploring graduate school and/or job market opportunities			
Fall:		**Spring:**	
BIOL 251 Laboratory Research Methods I	2	**BIOL 240 Cellular & Molecular Biology**	4
BIOL/CHEM 340 Intro to Organic & Biochemistry	4	**BIOL 252 Laboratory Research Methods II**	2
BIOL/MATH 218 Biostatistics	3	AIP Course	3
AIP Course	3	AIP Course	3
AIP Course	3	Elective	3
Total	**15**	**Total**	**15**
Senior Year- Review your graduation requirements; begin applying for jobs and/or graduate school			
Fall:		**Spring:**	
BIOL 397 Science Research	2	***BIOL 425 Genetics**	4
BIOL 332 Bioethics	3	**BIOL 497 Science Research**	3
AIP Course	3	Elective in the Major	3
Elective	3	AIP Course	3
Elective	3	Elective	3
Total	**14**	**Total**	**16**

Important Notes:

This plan may be subject to change, due to curriculum changes, course availability or advisor modification.

*BIOL 425 is offered in alternating years.