Biotechnology (A.S. Degree) Joint Degree (City College)

REMEDIAL/ESL SEQUENCE (if required)

□ ESL 1 (8) ►	🔲 ESL 2 (6) 🕨	🗌 ESL 3 (6)	► ENG 9 (4)	
□ ENG 1 ¹ (4) ▶	ENG 2 ¹ (4)			
□ RDL 1 ¹ (4) ▶	RDL 2 ¹ (6)			
MTH 1 ² (4)	MTH 5 ² (6) ▶	MTH 6 ² (6)		
CHM 2 ⁵ (4)				
GRADUATION REQUIREMENTS				
☐ GPA ≥ 2.0	Writing In	tensive 1	Writing Intensive 2	
FRESHMAN SEMINAR				
FYS11				

¹ENG 1/ENG 2 & RDL 1/RDL 2 are no longer offered. Students with ENG/RDL developmental need will now enroll in corequisite course ENG 100 (if English Proficiency Index is 0-49), **OR** ENG 110 (if English Proficiency Index is 50-64).

²MTH 1/MTH 5/MTH 6 are no longer offered. STEM students who are CUNY Math Proficient, or have Math developmental need will now enroll in corequisite course MTH 28.5.

³For MTH 28 enrollment, CUNY Math Proficient STEM students will also have to meet one of the following criteria:

Mathematics high school GPA of at least 70 and successful completion of a course beyond Algebra 1, **OR** New York State Regents Trigonometry Score of at least 65, **OR** New York State Regents Common Core Algebra 2 Score of at least 65.

⁴Only students who place out of MTH 28 will have free electives. Students who place out of MTH 28 can use one elective credit toward CHM 31. Students who do not place out of MTH 28 should select PHY 11 so as not to exceed the 60 credit limit for the program.

⁵CHM 2 is a pre-requisite for CHM 11. Students can place out of CHM 2 by taking a Department administered Chemistry Placement Exam or by having a score of 75 or higher on the NYS High School Regents Chemistry exam.

Note: To be accepted in the B.S. program at City College, students must have a 2.75 GPA in their science courses.

RECOMMENDED 2-YEAR ACADEMIC PLAN

SEMESTER I Freshman		Credits
ENG 100 ¹ OR ENG 110 ¹ OR ENG 111	English Composition I ¹ (Required Core A)	3
MTH 28 ^{2,3,4} OR MTH	College Algebra and Elementary Trigonometry OR Corequisite (Required	
28.5	Core B) ^{2,3,4,}	3
🔲 BIO 11	General Biology I (Life and Physical Science) (Required Core C)	4
Flexible Core A-D	Select ONE course from any Flexible Core A-D	3
	Subtotal:	13

SEMESTER II Freshman

ENG 112 OR ENG 113		
OR ENG 114 OR ENG 115	English Composition II (Required Core A)	
OR ENG 116		3
CHM 11 ⁵	General College Chemistry I ⁵ (Major Requirement)	4
BIO 12	General Biology II (Flexible Core E)	4
MTH 30	Pre-Calculus Mathematics (Flexible Core E)	4
	Subtotal:	15

SEMESTER III Sophomore

CHM 12	General College Chemistry II (Major Requirement)	4
MTH 31	Analytic Geometry & Calculus I (Major Requirement)	4
BIO 55	Genetics (Major Requirement)	3
Flexible Core A-D	Select ONE course from a different Flexible Core Area	3
Flexible Core A-D	Select ONE course from a different Flexible Core Area	3
	Subtotal:	17

SEMESTER IV Sophomore

BIO 56	Cell and Molecular Biology (Major Requirement)	4
☐ PHY 11 ⁴ OR CHM 31	College Physics I ⁴ OR Organic Chemistry I (Major Requirement)	4-5
□ MTH 37	Elements of Calculus and Statistics (Major Requirement)	4
Flexible Core A-D	Select ONE course from a different Flexible Core Area	3
Free Elective ⁴	Free Elective to complete 60 credits ⁴	0-3
	Subtotal:	15-16
	TOTAL:	60