

Biotechnology (A.S. Degree)
Joint Degree (City College)
FALL 2022-SPRING 2023

REMEDIAL SEQUENCE (if required)

ESL 1 (8) ▶▶ ESL 2 (6) ▶▶ ESL 3 (6) ▶▶ ENG 9 (4)

ENG 1¹ (4) ▶▶ ENG 2¹ (4)

RDL 1¹ (4) ▶▶ RDL 2¹ (6)

MTH 1² (4) ▶▶ MTH 5² (6) ▶▶ MTH 6² (6)

CHM 2 (4)

GRADUATION REQUIREMENT

GPA ≥ 2.0 Writing Intensive 1 Writing Intensive 2

FRESHMAN SEMINAR

FYS 11

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. They have been replaced by MTH 28/28.5. Students who have successfully completed an elementary algebra math intervention at a CUNY college (e.g., Math Proficiency Workshop, CUNY Start Math, Math Start, or MTH 5) are eligible for MTH 28.

³For MTH 28 enrollment, a new student must be CUNY Math Proficient, and 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.

³Only students who place out of MTH 28 will have free electives, and can use one elective credit toward CHM 31.

⁴See Degree map at: <http://www.bcc.cuny.edu/academics/academic-advising/degree-maps/> for semester-by-semester sequence.

⁵Students who do not place out of MTH 28 should select PHY 11 so as not to exceed the 60 credits limit for the program.

NOTE: For acceptance to the B.S. program at the City College, students must have a 2.75 GPA in their science courses.

REQUIRED COMMON CORE

<input type="checkbox"/> A <input type="checkbox"/> A	English Composition¹ ENG 100 ¹ OR ENG 110 ¹ OR ENG 111; AND ENG 112 OR ENG 113 OR ENG 114 OR ENG 115 OR ENG 116	6
<input type="checkbox"/> B	Mathematical and Quantitative Reasoning² MTH 28 ³ College Algebra and Elementary Trigonometry OR MTH 28.5 ² (Corequisite)	3
<input type="checkbox"/> C	Life and Physical Sciences BIO 11 General Biology I	4
Subtotal:		13

FLEXIBLE COMMON CORE (Course list at: <http://www.bcc.cuny.edu/pathways/?p=Flexible-Common-Core>)

Students can complete no more than two courses from any one discipline or interdisciplinary field.		
<input type="checkbox"/> A	World Cultures and Global Issues	3
<input type="checkbox"/> B	US Experience in its Diversity	3
<input type="checkbox"/> C	Creative Expression	3
<input type="checkbox"/> D	Individual and Society	3
<input type="checkbox"/> E	Scientific World BIO 12 General Biology II AND MTH 30 Pre-Calculus Mathematics	8
Subtotal:		20

MAJOR REQUIREMENTS⁴

<input type="checkbox"/> BIO 55	Genetics	3
<input type="checkbox"/> BIO 56	Cell and Molecular Biology with an Introduction to Biotechnology	4
<input type="checkbox"/> CHM 11	General College Chemistry I	4
<input type="checkbox"/> CHM 12	General College Chemistry II	4
<input type="checkbox"/> ELECTIVES ³	Free Electives ³	0-3
<input type="checkbox"/> MTH 31	Analytic Geometry & Calculus I	4
<input type="checkbox"/> MTH 37	Elements of Calculus and Statistics	4
<input type="checkbox"/> PHY 11 ⁵ OR <input type="checkbox"/> CHM 31 ³	PHY 11 College Physics I ⁵ OR CHM 31 Organic Chemistry I	4-5
Subtotal:		27
TOTAL:		60