

Biotechnology (A.S. Degree) *
Joint Degree (City College)
FALL 2023-SPRING 2024

Footnotes:

¹Students with English Proficiency Index (EPI) of 0-49 enroll in corequisite course ENG 100. Students with EPI of 50-64 enroll in corequisite course ENG 110. Students with EPI of at least 65 (or other English proficiency qualification) enroll in ENG 111. Students with ESL need should take appropriate ESL course(s) (Sequence: ESL 01->02->03->09) before enrolling in ENG 110.

² Students are eligible to enroll in MTH 28 if they 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), or if they are CUNY Math proficient AND have the appropriate math background in high school. See the Mathematics Course Placement page in the [College Catalog](#).

³Students not eligible for MTH 28 or higher courses enroll in corequisite course MTH 28.5. However, note that students with Math Proficiency Index of 39 or lower are strongly encouraged to enroll in Math Start/CUNY Start.

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.

⁶Only students who place out of MTH 28 will have free electives and can use one elective credit toward CHM 31.

***Note:**

In order to apply for [graduation](#), students must complete all required courses with appropriate grades, complete two writing intensive courses, and have a minimum GPA of 2.0.

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 ² College Algebra and Elementary Trigonometry OR MTH 28.5 ³ (Corequisite)	3
<input type="checkbox"/> C	Life and Physical Sciences BIO 120 Biology I: Molecules, Cells, and Genes	4
Subtotal:		13

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 121 Biology II: Organisms, Biodiversity, and Systems 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 ⁶	PHY 11 College Physics I ⁵ OR CHM 31 Organic Chemistry I ⁶	4-5
Subtotal:		27
TOTAL:		60