

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

REMEDIAL SEQUENCE (if required)

<input type="checkbox"/> ESL 1 (8) ▶▶	<input type="checkbox"/> ESL 2 (6) ▶▶	<input type="checkbox"/> ESL 3 (6) ▶▶	<input type="checkbox"/> ENG 9 (4)
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<input type="checkbox"/> ENG 1 (4) ▶▶	<input type="checkbox"/> ENG 2 (4)
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<input type="checkbox"/> RDL 1 (4) ▶▶	<input type="checkbox"/> RDL 2 (6)
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<input type="checkbox"/> MTH 1 (4) ▶▶	<input type="checkbox"/> MTH 5 (6) ▶▶	<input type="checkbox"/> MTH 6 (6)
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<input type="checkbox"/> CHM 2 (4)

GRADUATION REQUIREMENTS

<input type="checkbox"/> CAT-R	<input type="checkbox"/> CAT-W	<input type="checkbox"/> CAT-M	<input type="checkbox"/> GPA ≥ 2.0
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<input type="checkbox"/> Writing Intensive I	<input type="checkbox"/> Writing Intensive II
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FRESHMAN SEMINAR

<input type="checkbox"/> FYS 11	1
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PATHWAYS REQUIRED CORE (course list available online)

<input type="checkbox"/> <input type="checkbox"/> A	English Composition ENG 110/111 and ENG 112/113/114/115/116	6
<input type="checkbox"/> B	Mathematical and Quantitative Reasoning MTH 30/31	4
<input type="checkbox"/> C	Life and Physical Sciences BIO 11 General Biology I	4

PATHWAYS FLEXIBLE CORE (course list available online)

<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	4
<input type="checkbox"/> A-E	Additional Flexible Core	3

Pathways Total: 33

RECOMMENDED 2-YEAR ACADEMIC PLAN

SEMESTER I Freshman

		Credits
<input type="checkbox"/> ENG 110 OR ENG 111	Fundamentals of Composition and Rhetoric OR Composition and Rhetoric I (Required Core A)	3
<input type="checkbox"/> MTH 30 ¹ OR MTH 31 ²	Pre-Calculus Mathematics ¹ OR Analytical Geometry & Calculus I ² (Required Core B)	4
<input type="checkbox"/> BIO 11	General Biology I (Life and Physical Science) (Required Core C)	4
<input type="checkbox"/> Flexible Core A-D ³	Select ONE course from any Flexible Core A-D ³	3
Subtotal:		14

SEMESTER II Freshman

<input type="checkbox"/> ENG 112 OR ENG 113 OR ENG 114 OR ENG 115 OR ENG 116	Composition and Rhetoric II OR Writing About Literature OR Written Composition and Prose Fiction OR Written Composition and Drama OR Written Composition and Poetry (Required Core A)	3
<input type="checkbox"/> CHM 11	General College Chemistry I (Major Requirement)	4
<input type="checkbox"/> BIO 12	General Biology II (Flexible Core E)	4
<input type="checkbox"/> MTH 31 ²	Analytical Geometry & Calculus I ² OR Free Elective Credits (May opt to fulfill a required course listed below and save the elective credits for a later semester.)	4
Subtotal:		15

SEMESTER III Sophomore

<input type="checkbox"/> CHM 12	General College Chemistry II (Major Requirement)	4
<input type="checkbox"/> MTH 37	Elements of Calculus and Statistics (Major Requirement)	4
<input type="checkbox"/> BIO 55	Genetics (Major Requirement)	3
<input type="checkbox"/> Flexible Core A-D ³	Select ONE course from any Flexible Core A-D ³	3
<input type="checkbox"/> Flexible Core A-D ³	Select ONE course from any Flexible Core A-D ³	3
Subtotal:		17

SEMESTER IV Sophomore

<input type="checkbox"/> BIO 56	Cell and Molecular Biology (Major Requirement)	4
<input type="checkbox"/> PHY 11 ⁴ OR CHM 31	College Physics I ⁴ OR Organic Chemistry I (Major Requirement)	4-5
<input type="checkbox"/> Flexible Core A-D ³	Select ONE course from any Flexible Core A-D ³	3
<input type="checkbox"/> Additional Flexible Core A-E ³	Select ONE course from any Flexible Core A-E ³	3
Subtotal:		14-15
TOTAL:		60

¹Students who place into MTH 30 will not have any free elective credits.

²Students who place into MTH 31 will have up to four free elective credits.

³Students must complete five Flexible Core courses, one from each of the four Flexible Core areas (A-D) and an additional course from any of the Flexible Core areas A-E.

⁴Students who take MTH 30 can only select PHY 11 so as not to exceed the 60 credit limit for the program

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