

## PATHWAYS

### Biotechnology (A.S. Degree)

Joint Degree (City College)

FALL 2019-SPRING 2020

#### REMEDIAL SEQUENCE (if required)

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

ENG 1 (4) ▶▶  ENG 2 (4)

RDL 1 (4) ▶▶  RDL 2 (6)

MTH 1 (4) ▶▶  MTH 5 (6) ▶▶  MTH 6 (6)

CHM 2 (4)

#### GRADUATION REQUIREMENT

CAT-R  CAT-W  CAT-M  GPA ≥ 2.0

Writing Intensive 1  Writing Intensive 2

#### FRESHMAN SEMINAR

FYS 11

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

<sup>1</sup>Students who placed into MTH 30 will not have any free elective credits.

<sup>2</sup>Students who take MTH 30 can only select PHY 11 so as not to exceed the 60 credit limit for the program.

#### REQUIRED COMMON CORE

<input type="checkbox"/> A	English Composition ENG 110 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 Reasoning MTH 30 <sup>1</sup> OR MTH 31	4
<input type="checkbox"/> C	Life and Physical Sciences BIO 11 General Biology I	4
<b>Subtotal:</b>		<b>14</b>

#### 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	4
<input type="checkbox"/> Select an additional course from the Flexible Core A, B, C, D, or E		3
<b>Subtotal:</b>		<b>19</b>

#### MAJOR REQUIREMENTS

<input type="checkbox"/> BIO 55	Genetics	3
<input type="checkbox"/> BIO 56	Cell & Molecular Biology	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	Free Electives <sup>1</sup>	0-4
<input type="checkbox"/> MTH 31	Analytic Geometry & Calculus I	0-4
<input type="checkbox"/> MTH 37	Elements of Calculus and Statistics	4
<input type="checkbox"/> PHY 11 OR <input type="checkbox"/> CHM 31	PHY 11 College Physics I OR CHM 31 Organic Chemistry I <sup>2</sup>	4-5
<b>Subtotal:</b>		<b>27</b>
<b>TOTAL:</b>		<b>60</b>