

**PATHWAYS**  
**Science (A.S. Degree)**  
**Physics Option**  
**FALL 2021-SPRING 2022**

**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 11 (4) ▶▶	<input type="checkbox"/> ENG 21 (4)
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<input type="checkbox"/> RDL 11 (4) ▶▶	<input type="checkbox"/> RDL 21 (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)
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**GRADUATION REQUIREMENTS**

<input type="checkbox"/> GPA ≥ 2.0	<input type="checkbox"/> Writing Intensive 1	<input type="checkbox"/> Writing Intensive 2
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**FRESHMAN SEMINAR**

<input type="checkbox"/> FYS 11
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<sup>1</sup>ENG 1/ENG 2 & RDL 1/RDL 2 are no longer available. Students with ENG/RDL remedial needs will now enroll in corequisite course ENG 100 (If English Proficiency Index < 50), or ENG 110 (If English Proficiency Index = 50-64).

<sup>2</sup> This program has obtained a waiver to require STEM variant courses in Required Core Area B and Area C and Flexible Core Area E. If students transferring into this program complete different courses in these areas, they will be certified as having completed the Common Core requirements, but it may not be possible for them to finish their degree within the regular number (60) of credits.

<sup>3</sup>See Degree map at: <http://www.bcc.cuny.edu/academics/academic-advising/degree-maps/> for semester-by-semester sequence.

<sup>4</sup>For students who take MTH 30 to fulfill the Required Core, no free electives remain.

<sup>5</sup>See your department advisor for the appropriate sequence of specialization courses.

Note: Students are encouraged to begin Transfer Planning early in their Academic careers. Please visit the Transfer Planning web site for the timeline as well as the information on Articulation and transfer: [Transfer Services – Bronx Community College \(cuny.edu\)](http://www.bcc.cuny.edu/transfer-services/)

**REQUIRED COMMON CORE**

<input type="checkbox"/> A <input type="checkbox"/> A	<b>English Composition I &amp; II</b> ENG 100 <sup>1</sup> OR ENG 110 <sup>1</sup> OR ENG 111; AND ENG 112 OR ENG 113 OR ENG 114 OR ENG 115 OR ENG 116	6
<input type="checkbox"/> B	<b>Mathematical and Quantitative Reasoning</b> MTH 30 Pre-Calculus Mathematics <sup>2</sup> OR MTH 31 Analytic Geometry & Calculus I	4
<input type="checkbox"/> C	<b>Life and Physical Sciences</b> CHM 11 General Chemistry I <sup>2</sup>	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	<b>World Cultures and Global Issues</b>	3
<input type="checkbox"/> B	<b>US Experience in its Diversity</b>	3
<input type="checkbox"/> C	<b>Creative Expression</b>	3
<input type="checkbox"/> D	<b>Individual and Society</b>	3
<input type="checkbox"/> E	<b>Scientific World</b> CHM 12 General Chemistry II <sup>2</sup>	4
<input type="checkbox"/>	<b>Select an additional course from Flexible Core A-E</b>	3
<b>Subtotal:</b>		<b>19</b>

**MAJOR REQUIREMENTS<sup>3</sup>**

<input type="checkbox"/> MTH 31	Analytic Geometry & Calculus I <sup>4</sup>	0-4
<input type="checkbox"/> MTH 32	Analytic Geometry & Calculus II	5
<input type="checkbox"/> ELECTIVES	Free Electives <sup>4</sup>	1-5

**Physics Option Requirements<sup>5</sup>**

<input type="checkbox"/> PHY 31	Physics I	4
<input type="checkbox"/> PHY 32	Physics II	4
<input type="checkbox"/> PHY 33	Physics III	4
<input type="checkbox"/> MTH 33	Analytical Geometry and Calculus III	5
<b>Subtotal:</b>		<b>27</b>
<b>TOTAL:</b>		<b>60</b>