

## Liberal Arts & Sciences (A.S. Degree) Physics Option

### 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 REQUIREMENTS

☐ CAT-R ☐ CAT-W ☐ CAT-M ☐ GPA ≥ 2.0

☐ Writing Intensive I ☐ Writing Intensive II

### PATHWAYS REQUIRED CORE (course list available online)

<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 <sup>1</sup> – CHM 11 General Chemistry 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"/> A-E	Additional Flexible Core	3
<input type="checkbox"/> E	Scientific World <sup>1</sup> – CHM 12 General Chemistry II	4

Pathways Total: 33

<sup>1</sup> For students who take MTH 30 to fulfill the Required Core, only one free elective credit remain.

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

NOTE: Student are encouraged to begin Transfer Planning early in their Academic careers. Please visit the Transfer Planning website for the timeline as well as the information on Articulation and transfer: <http://www.bcc.cuny.edu/TransferCounseling/>

## TWO-YEAR ACADEMIC PLAN

### SEMESTER I Freshman

<input type="checkbox"/> ENG 110 OR ENG 111	Fundamentals of Composition and Rhetoric <b>OR</b> Composition and Rhetoric I <b>(Required Core A)</b>	3
<input type="checkbox"/> MTH 30 <sup>1</sup> OR 31	Pre-Calculus Mathematics <b>OR</b> Analytic Geometry & Calculus I <b>(Required Core B)</b>	4
<input type="checkbox"/> CHM 11 <sup>2</sup>	General College Chemistry I <sup>2</sup> <b>(Required Core C)</b>	4
<input type="checkbox"/> Flexible Core A-D <sup>3</sup>	Select <b>ONE</b> course from any Flexible Core A-D <sup>3</sup>	3
<b>Subtotal:</b>		<b>14</b>

### SEMESTER II Freshman

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

### SEMESTER III Sophomore

<input type="checkbox"/> MTH 32	Analytic Geometry & Calculus II <b>(Major Requirement)</b>	5
<input type="checkbox"/> PHY 32	Physics II <b>(Major &amp; Phy Option Requirement)</b>	4
<input type="checkbox"/> Flexible Core A-D <sup>3</sup>	Select <b>ONE</b> course from any Flexible Core A-D <sup>3</sup>	3
<input type="checkbox"/> Flexible Core A-D <sup>3</sup>	Select <b>ONE</b> course from any Flexible Core A-D <sup>3</sup>	3
<b>Subtotal:</b>		<b>15</b>

### SEMESTER IV Sophomore

<input type="checkbox"/> MTH 33	Calculus and Analytical Geometry III <b>(Major &amp; Phy Option Requirement)</b>	5
<input type="checkbox"/> PHY 33	Physics III <b>(Major &amp; Phy Option Requirement)</b>	4
<input type="checkbox"/> Flexible Core A-D <sup>3</sup>	Select <b>ONE</b> course from any Flexible Core A-D <sup>3</sup>	3
<input type="checkbox"/> Additional FLEX CORE A-E <sup>3</sup>	Select <b>ONE</b> course from any Flexible Core A-E	3
<input type="checkbox"/> Free elective	Free elective credits to complete 60 credits	0-1
<b>Subtotal:</b>		<b>15-16</b>

**TOTAL: 60**