

## PATHWAYS

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

#### Chemistry Option

FALL 2016-SPRING 2017

#### 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 1  Writing Intensive 2

#### FRESHMEN SEMINAR

FYS 11 / OCD 1

<sup>1</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>2</sup>For students who take MTH 30 to fulfill the Required Core, there will be no free electives.

<sup>3</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. <http://www.bcc.cuny.edu/TransferCounseling/>

#### REQUIRED COMMON CORE

<input type="checkbox"/> A	English Composition ENG 10 OR ENG 11; and ENG 12 OR ENG 14 OR ENG 15 OR ENG 16	6
<input type="checkbox"/> B	Mathematical and Quantitative Reasoning MTH 30 Pre-Calculus Mathematics <sup>1</sup> OR MTH 31 Analytic Geometry & Calculus I	4
<input type="checkbox"/> C	Life and Physical Sciences CHM 11 General Chemistry I <sup>1</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	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 CHM 12 General Chemistry II <sup>2</sup>	4
<input type="checkbox"/>	Select an additional course from Flexible Core A-E	3
<b>Subtotal:</b>		<b>19</b>

#### MAJOR REQUIREMENTS

<input type="checkbox"/> MTH 31	Analytic Geometry & Calculus I <sup>2</sup>	0-4
<input type="checkbox"/> MTH 32	Analytic Geometry & Calculus II	5
<input type="checkbox"/> ELEC	Free Electives <sup>2</sup>	0-4

#### Chemistry Option Requirements<sup>3</sup>

<input type="checkbox"/> CHM 31	Organic Chemistry I	5
<input type="checkbox"/> CHM 32	Organic Chemistry II	5

#### Choose two of the three courses below:

<input type="checkbox"/> CHM 33	Quantitative Analysis	
<input type="checkbox"/> BIO 11	General Biology I	
<input type="checkbox"/> PHY 11	College Physics I	8
<b>Subtotal:</b>		<b>27</b>
<b>TOTAL:</b>		<b>60</b>