

## Science (A.S. Degree) Chemistry Option

### REMEDIAL/ESL SEQUENCE (if required)

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

ENG 1<sup>1</sup> (4) ▶▶  ENG 2<sup>1</sup> (4)

RDL 1<sup>1</sup> (4) ▶▶  RDL 2<sup>1</sup> (6)

MTH 1<sup>2</sup> (4) ▶▶  MTH 5<sup>2</sup> (6) ▶▶  MTH 6<sup>2</sup> (6)

CHM 2<sup>5</sup> (4)

### GRADUATION REQUIREMENTS

GPA ≥ 2.0  Writing Intensive 1  Writing Intensive 2

<sup>1</sup>ENG 1/ENG 2 & RDL 1/RDL 2 are no longer offered. Students with ENG/RDL developmental need will now enroll in corequisite course ENG 100 (if English Proficiency Index is 0-49), **OR** ENG 110 (if English Proficiency Index is 50-64).

<sup>2</sup>MTH 1/MTH 5/MTH 6 are no longer offered. STEM students who are CUNY Math Proficient, or have Math developmental need will now enroll in corequisite course MTH 28.5.

<sup>3</sup>For MTH 28 enrollment, CUNY Math Proficient STEM students will also have to meet one of the following criteria:

Mathematics high school GPA of at least 70 and successful completion of a course beyond Algebra 1, **OR** New York State Regents Trigonometry Score of at least 65, **OR** New York State Regents Common Core Algebra 2 Score of at least 65.

<sup>4</sup>Students who place out of MTH 28 and/or MTH 30 will take free elective course(s) to complete 60 total degree credits.

<sup>5</sup>This program has received a waiver to require students to complete specific STEM/STEM Variant courses in Required Area B, Required Area C and Flexible 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>6</sup>CHM 2 is a pre-requisite for CHM 11. Students can place out of CHM 2 by taking a Department administered Chemistry Placement Exam or by having a score of 75 or higher on the NYS High School Regents Chemistry exam.

<sup>7</sup>Students transferring into the program with 24 or more degree or equated credits will be exempt from FYS 11, and can take 1 free elective credit to satisfy this requirement.

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 \(cuny.edu\)](https://www.cuny.edu/transfer-services/).

## RECOMMENDED 2-YEAR ACADEMIC PLAN

### SEMESTER I (Freshman)

		Credits
<input type="checkbox"/> ENG 100 <sup>1</sup> <b>OR</b> ENG 110 <sup>1</sup> <b>OR</b> ENG 111	English Composition I <sup>1</sup> ( <b>Required Core A</b> )	3
<input type="checkbox"/> MTH 28 <sup>2,3,4,5</sup> <b>OR</b> MTH 28.5	College Algebra and Elementary Trigonometry <b>OR</b> Corequisite ( <b>Required Core B</b> ) <sup>2,3,4,5</sup>	3
<input type="checkbox"/> CHM 11 <sup>5,6</sup>	General College Chemistry I ( <b>Required Core C</b> ) <sup>5,6</sup>	4
<input type="checkbox"/> Flexible Core A-D	Select <b>ONE</b> course from any Flexible Core A-D	3
<input type="checkbox"/> FYS 11 <sup>7</sup>	First Year Seminar <sup>7</sup>	1
<b>Subtotal:</b>		<b>14</b>

### SEMESTER II (Freshman)

<input type="checkbox"/> ENG 112 <b>OR</b> ENG 113 <b>OR</b> ENG 114 <b>OR</b> ENG 115 <b>OR</b> ENG 116	English Composition II ( <b>Required Core A</b> )	3
<input type="checkbox"/> MTH 30 <sup>4,5</sup>	Pre-Calculus Mathematics ( <b>Flexible Core E</b> ) <sup>4,5</sup>	4
<input type="checkbox"/> CHM 12 <sup>5</sup>	General College Chemistry II ( <b>Flexible Core E</b> ) <sup>5</sup>	4
<input type="checkbox"/> Flexible Core A-D	Select <b>ONE</b> course from a different Flexible Core Area	3
<b>Subtotal:</b>		<b>14</b>

### SEMESTER III (Sophomore)

<input type="checkbox"/> MTH 31	Analytic Geometry & Calculus I ( <b>Major Requirement</b> )	4
<input type="checkbox"/> CHM 31	Organic Chemistry I ( <b>Chemistry Option Requirement</b> )	5
<input type="checkbox"/> Flexible Core A-D	Select <b>ONE</b> course from a different Flexible Core Area	3
<input type="checkbox"/> Flexible Core A-D	Select <b>ONE</b> course from a different Flexible Core Area	3
<b>Subtotal:</b>		<b>15</b>

### SEMESTER IV (Sophomore)

<input type="checkbox"/> CHM 32	Organic Chemistry II ( <b>Chemistry Option Requirement</b> )	5
<input type="checkbox"/> CHM 33 <b>OR</b> BIO 11 <b>OR</b> PHY 11 <b>OR</b> CHM 21 <b>OR</b> BIO 34/CHM 34 ( <b>Choose Two</b> )	Quantitative Analysis <b>OR</b> General Biology I <b>OR</b> College Physics I <b>OR</b> Introduction to Chemical Processes <b>OR</b> Biofuels and Bioproducts ( <b>Chemistry Option Requirements</b> )	8
<input type="checkbox"/> MTH 32	Analytic Geometry & Calculus II ( <b>Major Requirement</b> )	4
<b>Subtotal:</b>		<b>17</b>

**TOTAL: 60**