

Science (A.S. Degree)

Earth Systems and Environmental Science Option

REMEDIAL/ESL SEQUENCE (if required)

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

ENG 1¹ (4) ▶▶ ENG 2¹ (4)

RDL 1¹ (4) ▶▶ RDL 2¹ (6)

MTH 1² (4) ▶▶ MTH 5² (6) ▶▶ MTH 6² (6)

CHM 2⁵ (4)

GRADUATION REQUIREMENTS

GPA ≥ 2.0 Writing Intensive 1 Writing Intensive 2

FRESHMAN SEMINAR

FYS 11

¹ENG 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).

²MTH 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.

³For 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.

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

⁵This 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.

⁶CHM 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.

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

SEMESTER II (Freshman)

<input type="checkbox"/> ENG 112 OR ENG 113 OR ENG 114 OR ENG 115 OR ENG 116	English Composition II (Required Core A)	3
<input type="checkbox"/> MTH 30 ^{4,5}	Pre-Calculus Mathematics (Flexible Core E) ^{4,5}	4
<input type="checkbox"/> CHM 12 ⁵	General College Chemistry II (Flexible Core E) ⁵	4
<input type="checkbox"/> ESE 11 OR ESE 12 OR ESE 13	Earth Systems Science: The Earth OR Earth Systems Science: The Atmosphere OR Earth Systems Science: The Ocean (Major Requirement & Additional Flexible Core E)	4
Subtotal:		15

SEMESTER III (Sophomore)

<input type="checkbox"/> MTH 31	Analytic Geometry & Calculus I (Major Requirement)	4
<input type="checkbox"/> ESE 11 OR ESE 12 OR ESE 13	Earth Systems Science: The Earth OR Earth Systems Science: The Atmosphere OR Earth Systems Science: The Ocean (Major Requirement & Additional Flexible Core E)	4
<input type="checkbox"/> CHM 27	Principle of Laboratory Safety (Major Requirement)	2
<input type="checkbox"/> Flexible Core A-D	Select ONE course from a different Flexible Core Area	3
<input type="checkbox"/> Flexible Core A-D	Select ONE course from a different Flexible Core Area	3
Subtotal:		16

SEMESTER IV (Sophomore)

<input type="checkbox"/> ESE 21	Earth Systems Science: The Environment (Major Requirement)	4
<input type="checkbox"/> CHM 33	Quantitative Analysis (Major Requirement)	4
<input type="checkbox"/> MTH 32	Analytic Geometry & Calculus II (Major Requirement)	4
<input type="checkbox"/> Flexible Core A-D	Select ONE course from a different Flexible Core Area	3
Subtotal:		15

TOTAL: 60