

Science (A.S. Degree)

Earth Systems and Environmental Science Option

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 1 ¹ (4) ▶▶	<input type="checkbox"/> ENG 2 (4)
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<input type="checkbox"/> RDL 1 ¹ (4) ▶▶	<input type="checkbox"/> RDL 2 (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 ³ (4)

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

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 Science 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 Flex. Core	3-4
<input type="checkbox"/> E	Scientific World CHM 12 General Chemistry II	4

Pathways Total: 33-34

¹Students with prior ENG 1/RDL 1 placements (or English Proficiency Index < 50) will now take ENG 4 or RDL 4. Passing ENG 4 or RDL 4 will allow them to register for ENG 110.

²This 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.

³CHM 2 is a pre-requisite for CHM 11 and CHM 17. You can place out of CHM 2 by taking a Chemistry Department administered Chemistry Placement Exam or by having scored 75 or higher on the NYS High School Regents Chemistry exam.

⁴Students must complete five Flexible Core courses, one from each of the four Flexible Core areas (A-D), and an additional course from any of the Flexible Core areas A-E.

⁵For students with free electives, it is recommended that they take either GIS 11 or GIS 12.

Notes: • 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: <https://www.bcc.cuny.edu/campus-resources/transfer-services/transfer-agreements/>.

RECOMMENDED 2-YEAR ACADEMIC PLAN

SEMESTER I (Freshman)

		Credits
<input type="checkbox"/> ENG 110 ¹ OR ENG 111	English Composition I: Fundamentals of Writing and Rhetoric OR Writing and Rhetoric (Required Core A)	3
<input type="checkbox"/> MTH 30 ² OR 31 ²	Pre-Calculus Mathematics OR Analytic Geometry & Calculus I (Required Core B)	4
<input type="checkbox"/> CHM 11 ³	General College Chemistry I (Required Core C) ²	4
<input type="checkbox"/> Flexible Core A-D ⁴	Select ONE course from any Flexible Core A-D ⁴	3
<input type="checkbox"/> Flexible Core A-D ⁴	Select ONE course from any Flexible Core A-D ⁴	3
Subtotal:		17

SEMESTER II (Freshman)

<input type="checkbox"/> ENG 112 OR ENG 113 OR ENG 114 OR ENG 115 OR ENG 116	English Composition II : Writing and Rhetoric OR Writing About Literature OR Writing about Fiction OR Writing about Drama OR Writing about Poetry (Required Core A)	3
<input type="checkbox"/> MTH 31 ²	Analytic Geometry & Calculus I OR Free Elective ⁵ Credits if MTH 31 taken above. (May opt to fulfill a required course listed below and save the elective credits for a later semester.) (Major Requirement)	4
<input type="checkbox"/> CHM 12 ²	General College Chemistry II (Flexible Core E) ²	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 32	Analytic Geometry & Calculus II (Major Requirement)	5
<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 ⁴	Select ONE course from any Flexible Core A-D ⁴	3
Subtotal:		14

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"/> Flexible Core A-D ⁴	Select ONE course from any Flexible Core A-D ⁴	3
<input type="checkbox"/> Flexible Core A-E ⁴	Select an additional course from Flex. Core A-E ⁴ OR Free Elective ⁵ Credits if ESE 11 OR ESE 12 is taken above as Flexible Core E	3
Subtotal:		14

TOTAL: 60