Science (A.S. Degree) * Earth Systems and Environmental Science Option FALL 2023-SPRING 2024

Footnotes:

¹Students with English Proficiency Index (EPI) of 0-49 enroll in corequisite course ENG 100. Students with EPI of 50-64 enroll in corequisite course ENG 110. Students with EPI of at least 65 (or other English proficiency qualification) enroll in ENG 111. Students with ESL need should take appropriate ESL course(s) (Sequence: ESL 01->02->03->09) before enrolling in ENG 110.

² Students are eligible to enroll in MTH 28 if they have successfully completed an elementary algebra math intervention at a CUNY college (e.g., Math Proficiency Workshop, CUNY Start Math, Math Start, or MTH 5), or if they are CUNY Math proficient AND have the appropriate math background in high school. See the Mathematics Course Placement page in the <u>College Catalog.</u>

³Students not eligible for MTH 28 or higher courses enroll in corequisite course MTH 28.5. However, note that students with Math Proficiency Index of 39 or lower are strongly encouraged to enroll in Math Start/CUNY Start.

⁴This 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.

⁵Students who place out of MTH 28 and/or MTH 30 will take elective course(s) to complete 60 total degree credits. Either GIS 11 or GIS 12 is recommended to fulfill free elective credits.

⁶See Degree map at: <u>http://www.bcc.cuny.edu/academics/academic-advising/degree-maps/</u> for semester-by-semester sequence.

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

⁸See your department advisor for the appropriate sequence of specialization courses.

*Note:

 In order to apply for <u>graduation</u>, students must complete all required courses with appropriate grades, complete two writing intensive courses, and have a minimum GPA of 2.0.

REQUIRED COMMOM CORE

□ A □ A □ B	English Composition I ¹ & II	
	ENG 100 ¹ OR ENG 110 ¹ OR ENG 1111; AND ENG 112 OR ENG 113 OR ENG 114 OR ENG 115	
	OR ENG 116	6
	Mathematical and Quantitative Reasoning ^{2,3,4}	
	MTH 282.3,4,5 College Algebra and Elementary Trigonometry OR MTH 28.53 (Corequisite)	3
□ C	Life and Physical Sciences ⁴	
	CHM 11 General Chemistry I	4
	Subtotal:	13

FLEXIBLE COMMON CORE

Students can complete no more than two courses from any one discipline or interdisciplinary field.		
A World Cultures and Global Issues		3
B US Experience in its Diversity		3
C Creative Expression		3
D Individual and Society		3
E Scientific World ⁴ CHM 12 General Chemistry II AND MTH 30 ⁵ Pre-Calculus Mathematics		8
	Subtotal:	20

MAJOR REQUIREMENTS⁶

MAJOR REQUIREMEN	5 °			
MTH 31	Analytic Geometry & Calculus I	4		
MTH 32	Analytic Geometry & Calculus II	4		
☐ ELECTIVES ⁵	Free Electives ⁵	0-7		
FYS 117	First Year Seminar ⁷	1		
Earth Systems and Env	vironmental Science Option Requirements ⁸			
CHM 27	Principle of Laboratory Safety	2		
CHM 33	Quantitative Analysis	4		
Choose two of the three courses below:				
ESE 11 Earth Systems Science: The Earth OR				
ESE 12 Earth Systems Science: The Atmosphere OR				
ESE 13 Earth Systems Science: The Ocean				
ESE 21	Earth Systems Science: The Environment	4		
	Subtotal:	27		
	TOTAL:	60		