

Science (A.S. Degree)
Physics Option
FALL 2022-SPRING 2023

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 ¹ (4) |
|--|---|

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|--|---|
| <input type="checkbox"/> RDL 1 ¹ (4) ▶▶ | <input type="checkbox"/> RDL 2 ¹ (6) |
|--|---|

| | | |
|--|--|---|
| <input type="checkbox"/> MTH 1 ² (4) ▶▶ | <input type="checkbox"/> MTH 5 ² (6) ▶▶ | <input type="checkbox"/> MTH 6 ² (6) |
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| <input type="checkbox"/> CHM 2 (4) |
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GRADUATION REQUIREMENTS

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| <input type="checkbox"/> GPA ≥ 2.0 | <input type="checkbox"/> Writing Intensive 1 | <input type="checkbox"/> Writing Intensive 2 |
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FRESHMAN SEMINAR

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| <input type="checkbox"/> FYS 11 |
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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.

³This 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.

⁴For 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.

⁵See Degree map at: <http://www.bcc.cuny.edu/academics/academic-advising/degree-maps/> for semester-by-semester sequence.

⁶Students who place out of MTH 28 and/or MTH 30 will take elective course(s) to complete 60 total degree credits.

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: 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.bcc.cuny.edu/transfer-services/)

REQUIRED COMMON CORE

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|-----------------------------------|--|-----------|
| <input type="checkbox"/> A | English Composition¹ I & II ENG 100 OR ENG 110 OR ENG 111; AND ENG 112 OR ENG 113 OR ENG 114 OR ENG 115 OR ENG 116 | 6 |
| <input type="checkbox"/> A | | |
| <input type="checkbox"/> B | Mathematical and Quantitative Reasoning^{2,3} MTH 28 ^{4,6} College Algebra and Elementary Trigonometry OR MTH 28.5 ² (Corequisite) | 3 |
| <input type="checkbox"/> C | Life and Physical Sciences³ CHM 11 General Chemistry I | 4 |
| Subtotal: | | 13 |

FLEXIBLE COMMON CORE (Course list at: <http://www.bcc.cuny.edu/pathways/?p=Flexible-Common-Core>)

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| 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 World³ CHM 12 General Chemistry II AND MTH 30 ⁶ Pre-Calculus Mathematics | | 8 |
| Subtotal: | | 20 |

MAJOR REQUIREMENTS⁵

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|---|---|-----|
| <input type="checkbox"/> MTH 31 | Analytic Geometry & Calculus I ⁴ | 4 |
| <input type="checkbox"/> MTH 32 | Analytic Geometry & Calculus II | 4 |
| <input type="checkbox"/> ELECTIVES ⁶ | Free Electives ⁶ | 2-9 |
| <input type="checkbox"/> FYS 11 ⁷ | First Year Seminar ⁷ | 1 |

Physics Option Requirements⁸

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|---------------------------------|--------------------------------------|-----------|
| <input type="checkbox"/> PHY 31 | Physics I | 4 |
| <input type="checkbox"/> PHY 32 | Physics II | 4 |
| <input type="checkbox"/> PHY 33 | Physics III | 4 |
| <input type="checkbox"/> MTH 33 | Analytical Geometry and Calculus III | 4 |
| Subtotal: | | 27 |
| TOTAL: | | 60 |