## Mathematics (A.S. Degree)

| FALL 2022-SPRING 2023   | □ A □ A □ N □ N □ N □ N □ N □ N □ N □ N   | 6      |
|---|---|--------|
| REMEDIAL SEQUENCE (if required)           □ ESL 1 (8) → □ ESL 2 (6) → □ ESL 3 (6) → □ ENG 9 (4)   | B Mathematical and Quantitative Reasoning³ MTH 31 Calculus & Analytic Geometry I  Life and Physical Sciences⁴   | 4      |
| ☐ ENG 1 <sup>1</sup> (4) <b>&gt;&gt;</b> ☐ ENG 2 <sup>1</sup> (4)   | Lab Science I BIO 11 or CHM 11 or PHY 11 or PHY 31  | 4      |
| □ RDL 1 <sup>1</sup> (4) → □ RDL 2 <sup>1</sup> (6)   | Subtotal:   | 14     |
| ☐ MTH 1² (4) → ☐ MTH 5² (6) → ☐ MTH 6² (6)  | FLEXIBLE COMMON CORE (Course list at: http://www.bcc.cuny.edu/pathways/?p=Flexible-Common-Core)   |        |
| (I) O(M) O(A)   | Students can complete no more than two courses from any one discipline or interdisciplinary field.  |        |
| CRADUATION PROJUPEMENTS   | ☐ A World Cultures and Global Issues  | 3      |
| GRADUATION REQUIREMENTS  ☐ GPA ≥ 2.0 ☐ Writing Intensive 1 ☐ Writing Intensive 2  | ☐ B US Experience in its Diversity  | 3      |
| FRESHMAN SEMINAR  | ☐ C Creative Expression   | 3      |
| FYS 11  | ☐ D Individual and Society  | 3      |
| <sup>1</sup> ENG 1/ENG 2 & RDL 1/RDL 2 are no longer offered. Students with ENG/RDL developmental needs will now enroll in corequisite courses, ENG 100 (If English Proficiency Index < 50), <b>OR</b> ENG  | E Scientific World <sup>2</sup> Lab Science II BIO 12 or CHM 12 or PHY 12 or PHY 32   | 4      |
| 110 (If English Proficiency Index = 50-64).   | Restricted Elective Select an additional course from Flexible Core Area A-E.  | 3      |
| <sup>2</sup> MTH 1/MTH 5/MTH 6 are no longer offered. CUNY Math Proficient STEM students or those with Math developmental need will now enroll in corequisite course MTH 28.5.  | Subtota   | al: 19 |
| MTH 28 is now available for CUNY Math Proficient students who meet one of the following criteria:   | MA IOD DEGLUDENTATOS  |        |
| Mathematics high school GPA of at least 70 and successful completion of a course beyond Algebra   | MAJOR REQUIREMENTS <sup>5</sup> MTH 32 Analytic Geometry & Calculus II  | 4      |
| <ol> <li>OR New York State Regents Trigonometry Score of at least 65, OR New York State Regents<br/>Common Core Algebra 2 Score of at least 65.</li> </ol>  | MTH 33 Analytic Geometry & Calculus III   | 4      |
| <sup>3</sup> If a student is required to take MTH 28/28.5 College Algebra and Elementary Trigonometry <b>OR</b> MTH 30 Pre-calculus, then the following applies:  | ☐ MTH 42 Linear Algebra   | 4      |
|   | Select two courses from the following (MTH OR CSI):   |        |
| If MTH 28/28.5 is required, then MTH 28/28.5 applies to Required Core B; MTH 30 applies to Scientific World/Restricted Electives; and MTH 31 will be required in the major courses. Free electives reduced to 3-4.  If student is exempted from MTH 28/28.5 but MTH 30 is required, then MTH 30 applies to Scientific World/Restricted Electives. | <ul> <li>MTH 34 Differential Equations &amp; Selected Topics in Advanced Calculus</li> <li>MTH 35 Selected Topics in Advanced Calculus and Linear Algebra</li> <li>MTH 44 Vector Analysis</li> <li>MTH 46 Abstract Algebra</li> <li>MTH 48 Advanced Calculus</li> </ul> | 7.0    |
| <sup>4</sup> Lab Science I & II must form a sequence, e.g., BIO 11 & BIO 12.  | ☐ CSI 35 <sup>6</sup> Discrete Mathematics II ☐ ELECTIVES Free Electives  | 7-8    |
| 50 D  |   | - 0    |

**REQUIRED COMMON CORE** 

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

<sup>6</sup> CSI 35 has as prerequisite CSI 30, for which a student will need to use free elective credits. Note:

- 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.
- 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 information on articulation and transfer: Transfer Services - Bronx Community College (cuny.edu)



Subtotal:

TOTAL:

27

60