## **PATHWAYS** Mathematics (A.S. Degree) **FALL 2021-SPRING 2022**

Required Area B, BIO 11 or CHM 11 or PHY 11 or PHY 31 to fulfill Required Area C, and BIO 12 or CHM 12 or PHY 12 or PHY 32 to fulfill Flexible Area E. If students transferring into this program complete different course in these areas, they will be certified as having completed the Common Core requirements, but it may not be possible for them to finish

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)

their degree within the regular number (60) of credits.

		nd Quantitative Reasoning
DEMEDIAL SEQUENCE (if required)	WITH 31 Calcult	us & Analytic Geometry I <sup>2</sup>
REMEDIAL SEQUENCE (if required)	☐ C Life and Physic	
☐ ESL 1 (8) → ☐ ESL 2 (6) → ☐ ESL 3 (6) → ☐ ENG 9 (4)	Lab Science I	BIO 11 or CHM 11 or PHY 11 or PHY 31
☐ ENG 1¹ (4) → ☐ ENG 2¹ (4)		Subtot
☐ RDL 1 <sup>1</sup> (4) <b>→</b> ☐ RDL 2 <sup>1</sup> (6)	FLEXIBLE COMMON CORE (Course list at: http://www.bcc.cuny.edu/pathways/?p=Flexible-Common-Core)	
☐ MTH 1 (4) → ☐ MTH 5 (6) → ☐ MTH 6 (6)	Students can complete no more than two courses from any one discipline or interdisciplinary field.	
☐ CHM 2 (4)	☐ A World Cultures and Global Issues	
GRADUATION REQUIREMENTS	☐ B US Experience in its Diversity	
☐ GPA ≥ 2.0 ☐ Writing Intensive 1 ☐ Writing Intensive 2	☐ C Creative Expression	
FRESHMAN SEMINAR	☐ D Individual and Society	
☐ FYS 11	☐ E Scientific World <sup>2</sup>	
	Lab Science II BIC	12 <b>or</b> CHM 12 <b>or</b> PHY 12 <b>or</b> PHY 32
<sup>1</sup> ENG 1/ENG 2 & RDL 1/RDL 2 are no longer available. Students with ENG/RDL remedial	Select an additional course from Flexible Core Area A-E.	
needs will now enroll in corequisite course ENG 100 (If English Proficiency Index < 50), <b>or</b> ENG 110 (If English Proficiency Index = 50-64).		Sub
<sup>2</sup> MTH 30 is a pre-requisite for MTH 31. Students requiring MTH 30 must use free elective	MAJOR REQUIREMENTS	
credits for this purpose	☐ MTH 32	Analytic Geometry & Calculus II
<sup>3</sup> Lab Science I & II must form a sequence, e.g., BIO 11 & BIO 12.		Analytic Geometry & Calculus III
	☐ MTH 42	Linear Algebra
<sup>4</sup> See Degree map at: http://www.bcc.cuny.edu/academics/academic-advising/degree-maps/	Select two courses from	the following (MTH OR CSI):
semester-by-semester sequence.	MTH 34 Differential Equations & Selected Topics in Advanced Calculus	
33,100,00,100,00,100,000		
<sup>5</sup> CSI 35 has as prerequisite CSI 30, for which a student will need to use free elective credits or	☐ MTH 44 Vector Analysis	
sixth Flexible Core course (Area E). If a student chooses to take a different course for his/her	☐ MTH 46 Abstract Algebra	
sixth Flexible Core course, then this option is only available if the student does not need to take	☐ MTH 48 Advanced Calculus	
MTH 30 (Pre-calculus).	CSI 35 <sup>5</sup> Discrete Mathematics II	
	☐ ELECTIVES	MTH 30 <sup>2</sup> and/or Free Electives
Notes:		Subtot
The Program has been given a waiver to require its students to take MTH 31 to fulfill		TOTA

**REQUIRED COMMON CORE** 

**ENG 116** 

 $\square$  A

 $\Box$  A

**English Composition I & II** 

ENG 1001 OR ENG 1101 OR ENG 111; AND ENG 112 OR ENG 113 OR ENG 114 OR ENG 115 OR



6

14

3

19

5 5 4

7-8 1-6

27

60

Subtotal:

Subtotal:

Subtotal:

TOTAL: