PATHWAYS Mathematics (A.S. Degree) **FALL 2020-SPRING 2021**

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

REQUIRED COMMON CORE

□В

English Composition

Mathematical and Quantitative Reasoning

MTH 31 Calculus & Analytic Geometry I²

ENG 1101 OR ENG 111; and ENG 112 OR ENG 113 OR ENG 114 OR ENG 115 OR ENG 116





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

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



6

14

3

19

5 5

7-8 1-6 27

60

Subtotal:

Subtotal:

Subtotal: TOTAL: