## **PATHWAYS** Mathematics (A.S. Degree) **FALL 2019-SPRING 2020**

	Lab Science I	BIO 11 or CHM 11 or PHY 11 or PHY 31	
REMEDIAL SEQUENCE (if required)		Subtot	
☐ ESL 1 (8) <b>→</b> ☐ ESL 2 (6) <b>→</b> ☐ ESL 3 (6) <b>→</b> ☐ ENG 9 (4)			
☐ ENG 1 (4) <b>→</b> ☐ ENG 2 (4)	FLEXIBLE COMMON CORE (Course list at: http://www.bcc.cuny.edu/pathways/?p=Flexible-Common-Core)		
□ RDL 1 (4) <b>&gt;&gt;</b> □ RDL 2 (6)	Students can complete no more than two courses from any one discipline or interdisciplinary field.		
	☐ A World Cultures and Global Issues		
☐ MTH 1 (4) → ☐ MTH 5 (6) → ☐ MTH 6 (6)	☐ B US Experience in its Diversity		
☐ CHM 2 (4)	☐ C Creative Expression		
	□ D Individual and S	Society	
GRADUATION REQUIREMENTS	☐ E Scientific World <sup>2</sup>		
☐ CAT-R ☐ CAT-W ☐ CAT-M ☐ GPA ≥ 2.0	Lab Science II B	81O 12 <b>or</b> CHM 12 <b>or</b> PHY 12 <b>or</b> PHY 32	
☐ Writing Intensive 1 ☐ Writing Intensive 2	Select an addition	onal course from Flexible Core Area A-E.	
		Sub	
FRESHMAN SEMINAR			
☐ FYS 11	MAJOR REQUIREMENT	TS .	
		Analytic Geometry & Calculus II	
<sup>1</sup> MTH 30 is a pre-requisite for MTH 31. Students requiring MTH 30 must use free elective		Analytic Geometry & Calculus III	
credits for this purpose	☐ MTH 42	Linear Algebra	
<sup>2</sup> Lab Science I & II must form a sequence, e.g., BIO 11 & BIO 12.		om the following (MTH OR CSI):	
	☐ MTH 34 Differential Equations & Selected Topics in Advanced Calculus		
<sup>3</sup> 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	
sixth Flexible Core course (Area E). If a student chooses to take a different course for his/her	☐ MTH 44 Vector Analysis		
sixth Flexible Core course, then this option is only available if the student does not need to take		☐ MTH 46 Abstract Algebra	
MTH 30 (Pre-calculus).		☐ MTH 48 Advanced Calculus	
Notes:	☐ CSI 35³ Discrete I	Mathematics II	
The Program has been given a waiver to require its students to take MTH 31 to fulfill	☐ ELECTIVES	MTH 301 and/or Free Electives	
Required Area B, BIO 11 or CHM 11 or PHY 11 or PHY 31 to fulfill Required Area C, and		Subtot	
BIO 12 or CHM 12 or PHY 12 or PHY 32 to fulfill Flexible Area E. If students transferring		TOTA	
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			

**REQUIRED COMMON CORE** 

□ B

**English Composition** 

Life and Physical Sciences<sup>2</sup>

**Mathematical and Quantitative Reasoning** 

MTH 31 Calculus & Analytic Geometry I<sup>1</sup>

ENG 110 OR ENG 111; and ENG 112 OR ENG 113 OR ENG 114 OR ENG 115 OR ENG 116

6

14

3

19

5

7-8 1-6

27

60

Subtotal:

Subtotal:

Subtotal:

TOTAL:



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: http://www.bcc.cuny.edu/TransferCounseling/