

PATHWAYS

Mathematics (A.S. Degree)

FALL 2014-SPRING 2015

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 (4) ▶▶	<input type="checkbox"/> ENG 2 (4)
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<input type="checkbox"/> RDL 1 (5) ▶▶	<input type="checkbox"/> RDL 2 (5)
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<input type="checkbox"/> MTH 1 (4) ▶▶	<input type="checkbox"/> MTH 5 (6) ▶▶	<input type="checkbox"/> MTH 6 (6)
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<input type="checkbox"/> CHM 2 (4)

GRADUATION REQUIREMENTS

<input type="checkbox"/> CAT-R	<input type="checkbox"/> CAT-W	<input type="checkbox"/> CAT-M	<input type="checkbox"/> GPA ≥ 2.0
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<input type="checkbox"/> Writing Intensive 1	<input type="checkbox"/> Writing Intensive 2
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FRESHMAN REQUIREMENT

<input type="checkbox"/> FYS 11 / OCD 1

¹A student who takes MTH 30 must use free elective credits for this purpose.

²Lab Science I & II must form a sequence, e.g., BIO 11 & BIO 12.

Notes:

- 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 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 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/>

REQUIRED COMMON CORE (course list available online)

<input type="checkbox"/> A	English Composition ENG 10 OR ENG 11; and ENG 12 OR ENG 14 OR ENG 15 OR ENG 16	6
<input type="checkbox"/> B	Mathematical and Quantitative Reasoning MTH 31 Calculus & Analytic Geometry I ¹	4
<input type="checkbox"/> C	Life and Physical Sciences ² Lab Science I BIO 11 or CHM 11 or PHY 11 or PHY 31	4
Subtotal:		14

FLEXIBLE COMMON CORE (course list available online)

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 World ² Lab Science II BIO 12 or CHM 12 or PHY 12 or PHY 32	4
<input type="checkbox"/>	Select an additional course from Flexible Core Area A-E.	3
Subtotal:		19

SPECIALIZATION REQUIREMENTS

<input type="checkbox"/> MTH 32	Analytic Geometry & Calculus I	5
<input type="checkbox"/> MTH 33	Analytic Geometry & Calculus II	5
<input type="checkbox"/> MTH 42	Linear Algebra	4
Select two courses from the following (MTH OR CSI):		
<input type="checkbox"/> MTH 34	Differential Equations & Selected Topics in Advanced Calculus	7-8
<input type="checkbox"/> MTH 44	Vector Analysis	
<input type="checkbox"/> MTH 46	Abstract Algebra	
<input type="checkbox"/> MTH 48	Advanced Calculus	
<input type="checkbox"/> CSI 35	Discrete Mathematics II	
<input type="checkbox"/> ELEC	MTH 30 ¹ and/or Free Electives	1-6
Subtotal:		27
TOTAL:		60