



**THE BOROUGH OF MANHATTAN COMMUNITY COLLEGE OF THE CITY UNIVERSITY OF NEW YORK
ARTICULATION AGREEMENT FORM**

A. SENDING AND RECEIVING INSTITUTIONS

Sending College: Borough of Manhattan Community College

Department: Mathematics

Program: Mathematics

Degree: Associate in Science (A.S.)

Receiving College: Mercy College

Department: School of Liberal Arts

Program: Mathematics

Degree: Bachelor of Science (B.S.)

B. ADMISSION REQUIREMENTS FOR SENIOR COLLEGE PROGRAM

Students must have completed an associate's degree with an overall GPA of 2.0.

Only courses with grades of C or better may be applied to the major or major prerequisite courses unless otherwise stated. Grades of C-, D+ and D may be used to fulfill General Education or elective requirements only if those courses were part of the student's earned associate degree program.

Total transfer credits granted toward the Baccalaureate degree:

A total of 90 credits are accepted in transfer. Only 75 may be from a two year institution.

CLEP, DANTES and ACE equivalent credits (military transcript) are accepted in transfer.

One half of the major requirements must be completed at Mercy College. Permission to transfer in any additional major courses after the student's final transcript(s) are evaluated must be approved by the Dean of the School for that student's major.

Total transfer credits granted toward the baccalaureate degree: **60**

Total additional credits required at the senior college to complete baccalaureate degree: **60**

C. COURSE TO COURSE EQUIVALENCIES AND TRANSFER CREDIT AWARDED

Borough of Manhattan Community College graduates who complete the Associate in Arts (A.S.) degree in Mathematics will receive 60 credits toward the Bachelors of Science (B.S.) degree in Mathematics at Mercy College. Beginning fall 2013, students who enter the College will follow the Pathways curriculum for Mathematics.

Current Mathematics Curriculum

General Requirements	
ENG 101 – English Composition I	3
ENG 201 – English Composition II	3
HED 100 – Health Education	2
Modern Languages	6-8
MUS/ARTxxx – Many courses	2
SPE 100 – Fundamentals of Speech	3
Science – Choose from BIO210/220, CHE210/220, PHY210/220 or PHY215/225	8
Social Science courses	6
Electives	3-4
Total General Credits	36-39
Curriculum Requirements	
MAT 301 – Analytic Geometry & Calc I	4
MAT 302 – Analytic Geometry & Calc II	4
MAT 303 – Analytic Geometry & Calc III	4
MAT 315 – Linear Algebra	3
Program Electives: Choose 3 or 4 for a total of 9 credits: MAT 200, MAT 209, MAT 320, MAT 501, MAT 505, MAT 601, CSC 210	9
Total Curriculum Credits	24
Total Program Credits	60

Pathways Mathematics Curriculum, AS

Common Core	
Required Common Core	
English Composition	6
Mathematical & Quantitative Reasoning ¹	3
Life & Physical Sciences ²	3
Total Required Common Core	12
Flexible Core³	
Creative Expression	6
World Culture & Global Issues	3
U.S. Experience in Its Diversity	3
Individual & Society	3
Scientific World ⁴	3
Total Flexible Core	18
Total Common Core	30
Curriculum Requirements	
MAT 301 – Analytic Geometry & Calc I	4
MAT 302 – Analytic Geometry & Calc II	4
MAT 303 – Analytic Geometry & Calc III	4
MAT 315 – Linear Algebra	3
Program Electives: Choose 3 or 4 for a total of 9 credits: MAT 200, MAT 209, MAT 320, MAT 501, MAT 505, MAT 601, CSC 210	9
MLD Course	3
General Electives ⁵	3
Total Curriculum Credits	30
Total Program Credits	60

¹ Students are advised to take MAT 206.

² Students are advised to take BIO 210, CHE 201, PHY 210, or PHY 215.

³ No more than two courses in any discipline or interdisciplinary field can be used to satisfy Flexible Core requirements.

⁴ Students are advised to take BIO 220, CHE 202, PHY 220, or PHY 225.

⁵ These credits can be satisfied by taking STEM variants in the Common Core.

D. SENIOR COLLEGE UPPER DIVISION COURSES REMAINING FOR BACCALAUREATE DEGREE

<u>Course and Title</u>	<u>Credits</u>
<i>General Education (Liberal arts, Core, Distribution) and other Required Courses</i>	
JRSM 301 Junior Seminar	3
MATH 131 Foundations of Computing I	3
Subtotal	6
<i>Specific Program Requirements</i>	
MATH 231 Foundations of Computing II	3
MATH 307 Number Theory	3
MATH 350 Probability: Theory and Applications	3
MATH 365 Algebraic Structures	3
MATH 417 Mathematical Modeling	3
Subtotal	15
<i>Specialization Requirements</i>	
<i>9 credits selected from the following approved courses:</i>	
	3
MATH 327 Computer graphics	3
MATH 329 Numerical Analysis	3
MATH 362 Differential Equations	3
MATH 395 Special Topics in Mathematics	4
MATH 460 Advanced Calculus I	3
MATH 461 Advanced Calculus II	
<i>The BMCC Mathematics courses listed below can be used to satisfy specialization requirements:</i>	
MAT 320 Abstract Algebra (3 cr.); MAT 501 Differential Equations (3 cr.); MAT 505 History of Mathematics (3 cr.); and MAT 601 Advanced Calculus (4 cr.).	
Subtotal	19
<i>Open Electives¹²</i>	
	20
Subtotal	20
Total upper division requirements	60
Total credits transferred from BMCC	60
Total credits required to earn the BS in Mathematics	120

1. Students may choose a minor field of study.
2. Students interested in Secondary Education for Mathematics may take 15 credits in graduate education courses. These credits may be used to satisfy both undergraduate and graduate degree requirements.

E. ARTICULATION AGREEMENT FOLLOW-UP PROCEDURES

1. Procedures for reviewing, updating, modifying or terminating agreement:

When either of the degree programs involved in this agreement undergoes a change, the agreement will be reviewed and revised accordingly by faculty from each institution's respective departments, selected by their Chairpersons.

2. Procedures for evaluating agreement, i.e., tracking the number of students who transfer under the articulation agreement and their success:

Each semester Mercy College will provide the Borough of Manhattan Community College the following information: a) the number of BMCC students who applied to the program; b) the number of BMCC students who were accepted into the program; c) and the number of BMCC students who enrolled; d) the aggregate GPA of these enrolled students.

3. Sending and receiving college procedures for publicizing agreement, e.g., college catalogs, transfer advisers, Websites, etc.:

This articulation agreement will be publicizing on the Borough of Manhattan Community College's website, and the Mercy College website. Transfer advisors at BMCC will promote this agreement with eligible students.

F. Additional Information (e.g., financial aid, transfer scholarships)

Transfer students are eligible to apply for financial aid that is normally available to other junior class students.

Scholarships from \$2000 to \$5000 per year are awarded to transfer students with associate degrees on the basis of previous academic performance of at least a 3.0 cumulative GPA.

A scholarship for members of Phi Theta Kappa is also available.