The City University of New York
Recommended Articulation Agreement Format

Agreement initiated by (college) <u>New York City College of Technology</u>

Sending College: <u>Bronx Community College</u>

    Department: <u>Mathematics</u>

    Program: <u>Mathematics</u>

    Degree: <u>Associate of Arts and Science</u> AS

Receiving College:

    Department: <u>Mathematics</u>

    Program: <u>Applied Mathematics</u>

    Degree: <u>Bachelor of Science</u>

Admission requirements for senior college program (e.g., minimum GPA):

- Students are required to have completed two semesters of calculus.

Total transfer credits granted toward the baccalaureate degree: 60*
*Due to discrepancies in the credits assigned to certain courses, 60 credits offered at Bronx Community College translates into 56 credits at New York City College of Technology.

Total additional credits required at the senior college to complete baccalaureate degree:64

COURSE TO COURSE EQUIVALENCIES AND TRANSFER CREDIT AWARDED

BCC (Suggested Equivalency) Course and Title	Cr.	NYCCT Equivalent Course and Title	Cr	Credit Granted
MTH 31 Calculus I	4	MA 475 Calculus I	4	4
MTH 32 Calculus II	5	MA 575 Calc II + MA 476 L	5	5
SCI (Physics I PHY 31)	4	Science A (SC 441 Physics I)	5	4
SCI (Physics II PHY 32)	4	Science B (SC 442 Physics II)	5	4
ENG 11 Comp I	3	EG 101 English I	3	3
ENG 12, 14, 15, or 16 (ENG 12 Comp II)	3	Communications or Literature/Aesthetics/Philosophy (EG 121 English II)	3	3
HIS 10 or 11 History	3	Behavioral/Social Science	3	3
MUS 11 or ART 11	3	Literature/Aesthetics/Philosophy	3	3
HIS or SOC (ECO 11)	3	Behavioral/Social Science (EN 401 Micro Economics)	3	3
Free Elective – Liberal Arts and Science only (ECO 12)	3	Liberal Arts and Science Elective (EN 101 Macro Economics)	3	3
Free Elective – Liberal Arts and Science only (ENG 14,15 or 16)	3	Liberal Arts and Science Elective (Literature/Aesthetics/Philosophy)	3	3
CMS 11 Speech	3	Communications	3	3
		SUBTOTAL		**41**
		Specific Program Requirements (Including Prequisites)		
MTH 33 Calculus III	5	MA 675 Calculus III	4	4
CSI 10 Intro to Programming I	3	CS 101 Intro to Programming	3	3
Restricted Electives CSI 20, MTH 34, MTH 44, MTH 46, or MTH 48 (CSI 20 Discrete Math and MTH 34 Diff EQ)	7	Mathematics Electives (MA 440 Discrete Math and MA 680 Differential Equations)	6	6
MTH 42 Lin Algebra	4	MA 580 Linear Algebra	3	3
		SUBTOTAL		**16**
		TOTAL		**57**

SENIOR COLLEGE UPPER DIVISION COURSES
REMAINING FOR BACCALUREATE DEGREE

Course and Title   Credits

General Education (Liberal arts, Core, Distribution) and other Required Course	
(Advanced Literature), Aesthetics or Philosophy	3
Elective	1
ENG 533 Advanced Technical Writing	3
SUBTOTAL	7

Prerequisites and Major Courses	
CS 403 C Programming I	3
CS 503 C Advanced Programming II	3
CS 603 Object Oriented Programming	3
CS 550 Data Structures	3
CS 504 Database Programming	3
MA 490 Into to Financial Math	3
CS 604 Distributed Database	3
MA 530 Numerical Methods	3
MA 572 Probability and Statistics I	4
MA 672 Probability and Statistics II	4
MA 772 Stochastic Processes	4
MA 872 Probability and Statistics III	4
MA 770 Math Modeling: Optimization	3
MA 880 Math Modeling: Dynamic	3
MA 678 Applied Math: Algorithms	3
MA 787 Applied Math: Application of the Heat Equation	3
MA 900, MA 901 Internship	4
SUBTOTAL	56
TOTAL	63