Letter of Articulation between John Jay College of Criminal Justice of the City University of New York and **Borough of Manhattan Community College** of the City University of New York

John Jay College of Criminal Justice agrees to accept into the Bachelor of Science degree program in Computer Science students from Borough of Manhattan Community College who successfully complete the Computer Science curriculum described below (see Section B for course equivalencies), thereby receiving an Associate in Science degree. Successful completion of the Computer Science curriculum at Borough of Manhattan Community College includes the attainment of at least a 2.0 overall grade-point average.

Borough of Manhattan Community College and John Jay College of Criminal Justice agree to present the courses noted in the Computer Science curriculum described below as outlined in each of the colleges' catalogs, and agree to notify each other if curriculum requirements, course numbers, content or catalog descriptions change. Furthermore, the parties involved understand that any change in curriculum requirements, course number, and content or catalog description may require a modification to this agreement.

It is also understood that the Department of Computer Information Systems at Borough of Manhattan Community College will identify Borough of Manhattan Community College students who wish to participate in the articulation, and will recommend the Computer Science program at John Jay College of Criminal Justice to those who successfully complete the Computer Science curriculum.

Maril	Wha	
Provost		
John Jay College of C	Criminal Justice	

Senior Vice President for Academic Affairs Borough of Manhattan Community College

12/6/04

Chairperson, Mathematics and Computer Studies John Jay College of Criminal Justice

Chairperson, Computer Information Systems Borough of Manhattan Community College

Date: 15- Dec 2004

Date:

Borough of Manhattan Community College The City University of New York

Section A

Computer Science Program Leading to the Associate in Science (A.S) degree

General Requirements		Credits
ENG 101	English Composition I	. 3
ENG 201	English Composition II	3
SPE 100	Fundamental of Speech	3
	(SPE 102 satisfies this requirement for students whose first language is not English)	
XXX xxx	Music or Art (Choose from: ART 181, 210, 230, or MUS 110, 220)	1-2
XXX xxx	Social Science (Choose from: ANT 100, ECO 100, HIS 101, HIS 102, PHI 100, POL 100, PSY 100, SOC 100)	3
Total General Credits		13-14

Curriculum Credits		Credits
CSC 110	Computer Programming I	4
CSC 210	Computer Programming II	4
CSC 230	Discrete Structures	3
CSC 310	Assembler Language and Architecture I	3
CSC 330	Data Structures I	3
CSC 410	Assembler Language and Architecture II	3
CSC 430	Data Structures II	3
MAT 301	Analytic Geometry and Calculus II	4
	(MAT 206 is a pre-requisite for MAT 301.)	
MAT 302	Analytic Geometry and Calculus II	4
MAT 303	Analytic Geometry and Calculus III	4
MAT/CSC 470	Mathematical Foundations of Computer	4
	Networking	•
PHY 215	University Physics I	4
PHY 225	University Physics II	4
Total Curriculum Credits		
Total Program Cree	dits	60

Computer Science Program at Borough of Manhattan Community College Course Equivalency Listing for John Jay College Computer Science Degree

Section B

General F	General Requirements		General Requirements †		
Course	Description	Crs.	Course	Description	Crs.
ENG 101	English Composition I	3	ENG-101	College Composition I	3
ENG 201	English Composition II	. 3	ENG 102	College Composition II	3
SPE 100	Fundamentals of Speech	3	SPE 113	Speech Communication	3
	Music or Art	1-2	ART xxx Or MUS xxx		2
XXX xxx	(Art 181, 210, 230, or Mus 110, 220)	3	Equivalent		 -
XXX xxx	Social Science (Choose from: ANT 100, ECO 100, HIS 101, HIS 102, PHI 100, POL 100, PSY 100, SOC 100)	3	Course Credit		J
	Total General Credits	13-14			14
Curricul	um Requirements			m Requirements	
CSC 110	Computer Programming I	4	MAT 271	Introduction to Computing and Programming	3*
CSC 210	Computer Programming II	4	MAT 272	Object Oriented Computing	3*
CSC 230	Discrete Structures	3	MAT 204	Discrete Structures	3
CSC 310	Assembler Language & Architecture I	3		Elective	3
CSC330	Data Structures I	3		Elective	3
CSC 410	Assembler Language & Architecture II	3		Major Elective (Part 3)	3
CSC 430	Data Structures II (Grade of C or better required)	3	MAT 373	Advanced Data Structures	3**
MAT 470		4	MAT 279	Data Communications and the Internet	3 *
MAT 301		4	MAT 241	Calculus I	3*
MAT 302		4	MAT 242	Calculus II	3*
MAT 303		4	MAT 243	Calculus III Major Elective (Part 3)	3*
PHY 215		4	PHY 203	General Physics	4
PHY 225		4	PHY 204	General Physics	4
		[General Electives	5
	Total Curriculum Credits	47		Total Curriculum Credits	46
	Total Program Credits	60		Total Program Credits	60

[†] The John Jay College Core (37-57 credits) is waived for transfer students with an A.S. in computer science.

^{*} The course at John Jay College carries fewer credits. Excess credits earned will count as general electives.

^{**} The course at John Jay College carries more credits. Students will receive the number of credits earned.

Courses/Credits Remaining for the John Jay College B.S. Degree in Computer Science

Note: Students transferring from BMCC with an A.S. in Computer Science must take the following additional courses to meet the John Jay College Computer Science major requirements.

CS Major Requirements (21 credits)			
Part One Foundation Courses: MAT 374 Programming Languages MAT 375 Operating Systems		Part Three MAT/CSC/Statistics Electives None	
MAT 377 Computer Algorithms	3	Part Four Applied Specialization †† MAT 400 Quantitative Problems in Criminal Justice	
Part Two Operations Research MAT 323 Operations Research Models I MAT 324 Operations Research Models II	3	MAT 404 Internship in MIS MAT 470 Database Systems in Criminal Justice	3
Total CS Required Credits:	24		
LIT 230, 231, 232 or 233	3		· :
General Electives	33		
Total Credits	60		

tt Students may select the Public Administration sequence of four courses as the Part IV Applied Specialization sequence