



## THE CITY UNIVERSITY OF NEW YORK ARTICULATION AGREEMENT

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### A. SENDING AND RECEIVING INSTITUTIONS

Sending College: **Bronx Community College of the City University of New York**

Department: Mathematics and Computer Science

Program: Computer Science

Degree: Associate in Science

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Receiving College: **John Jay College of Criminal Justice of the City University of New York**

Department: Mathematics and Computer Science

Program: Computer Science and Information Security

Degree: Bachelor of Science

### B. ADMISSION REQUIREMENTS FOR SENIOR COLLEGE PROGRAM

(e.g., minimum GPA, audition/portfolio):

#### **Application Deadlines:**

Spring Admissions-September 15, Fall Admissions-February 1

CUNY Transfer Application is available online at [www.cuny.edu](http://www.cuny.edu)

CUNY Application Processing Center: 212.997.CUNY

#### **Progression at John Jay**

To earn a Bachelor's Degree at John Jay College, BCC Associate Degree graduates must complete at least 120 credits to fulfill the degree requirements, including at least 50% of their major coursework. All degree candidates must have completed all prescribed courses, fulfilled the requirements of their majors, achieved at least a C average (2.0 GPA), and cleared all accounts with the College. Candidates for degrees are reminded that grades of INC assigned during the last semester of attendance in courses required for graduation will result in the postponement of graduation.

Associate in Science Degree from Bronx Community College:

Bronx Community College graduates with the Associate Degree in Science will receive 60 credits toward the Bachelor of Science in Computer Science and Information Security at John Jay College. In addition, they will be deemed to have met all lower level general education requirements.

Total transfer credits granted toward the baccalaureate degree: 60

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

Determination of the Liberal Arts credits required for the baccalaureate degree in accordance with New York State Education Department requirements will be made by John Jay College.

**C. COURSE TO COURSE EQUIVALENCIES AND TRANSFER CREDIT AWARDED**

<b>CUNY Pathways General Education Requirements</b>	
<b>Required Common Core</b>	<b>Credits</b>
A. English Composition (2 courses) B. Mathematical and Quantitative Reasoning (1 course) <b>MTH 31 Analytic Geometry &amp; Calculus I</b> C. Life and Physical Sciences (1 course) <b>BIO 11 General Biology I OR CHM 11 General Chemistry I OR PHY 11 College Physics I OR PHY 31 Physics I</b>	14
<b>Flexible Common Core</b>	<b>Credits</b>
A. World Cultures and Global Issues (1 course) B. U.S. Experience in Its Diversity (1 course) C. Creative Expression (1 course) D. Individual and Society (1 course) E. Scientific World (1 course) <b>CSI 30 Discrete Mathematics I AND</b> <b>BIO 12 General Biology II OR CHM 12 General Chemistry II OR PHY 12 College Physics II OR PHY 32 Physics II</b>	19
<b>Subtotal</b>	<b>33</b>

<b>Bronx Community College</b>		<b>John Jay College Equivalent</b>		<b>Transfer Credit Granted</b>
<b>Major Requirements</b>				
<b>Course &amp; Title</b>	<b>Credit</b>	<b>Course &amp; Title</b>	<b>Credit</b>	
MTH 32 Analytic Geometry & Calculus II	5	MAT 242 Calculus II	3	3 + 2 Elective
MTH 33 Analytic Geometry & Calculus III	5	MAT 243 Calculus III AND MAT 244 Calculus IV	3 2	5
CSI 31 Introduction to Programming I	3	CSCI 271 Introduction to Computing and Programming	3	3
CSI 32 Introduction to Programming II	3	CSCI 272 Object Oriented Computing	3	3
CSI 33 Data Structures	3	CSCI 373 Advanced Data Structures	3	3
CSI 35 Discrete Mathematics II	3	Category B. Mathematics Electives (Major)	3	3
Free Electives *MTH 30 OR Free Elective *Students requiring MTH 30 must use free elective credits for this purpose.	1-5	MTH 141 Pre-Calculus OR other equivalent course / elective credit	1-5	3 + 2 Elective OR 5 Elective
<b>Subtotal</b>			<b>27</b>	

<b>TOTAL:</b>	<b>60</b>
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**D. SENIOR COLLEGE UPPER DIVISION COURSES REMAINING FOR BACCALAUREATE DEGREE**

<b>Bachelor of Science in Computer Science and Information Security</b>	
<b>About the Program</b>	
The major in Computer Science and Information Security offers the computing, quantitative and analytical expertise public and private organizations need to advance the practice of digital forensics and cybersecurity. The program provides the broad background in computing that is needed to thwart the abuse and misuse of computers, data networks, information systems and information infrastructures, in the environment of ever advancing digital technology. The courses in the Computer Science and Information Security major prepare students for direct entry into the profession as well as entry into graduate and professional programs that rely on computing and quantitative methods, especially in areas related to digital forensics and cybersecurity. Read more at <a href="http://www.jjay.cuny.edu/computer-science-and-information-security-bs">http://www.jjay.cuny.edu/computer-science-and-information-security-bs</a>	
<b>Pathways Requirements</b>	
<b>College Option (6 credits)</b>	<b>Credits</b>
300 level Justice Core Communications or Learning from the Past	6
<b>Major Requirements</b>	
<b>Part One. Core Computer Science Courses</b>	24
CSCI 274 Computer Architecture	
CSCI 360 Cryptography and Cryptanalysis	
CSCI 374 Programming Languages	
CSCI 375 Operating Systems	
CSCI 377 Computer Algorithms	
CSCI 379 Computer Networking	
CSCI 411 Computer Security & Forensics CSCI 412 Network Security & Forensics	
<b>Part Two. Required Mathematics Courses</b>	3
MAT 301 Probability & Mathematical Statistics I	
<b>Part Three. Electives</b>	3
Category A. Computer Science Electives ( <i>Select One</i> )	
CSCI 275 Linux Systems Administration and Security	
CSCI 362 Databases and Data Mining	
CSCI 376 Artificial Intelligence	
CSCI 380 Selected Topics in Computer Science CSCI 404 Internship in Management Information Systems	
<b>Part Four. Ethics</b>	3
PHI 216 Ethics and Information Technology	
<b>Part Five. Capstone Courses</b>	6
CSCI 400 Capstone Experience in Digital Forensics/Cybersecurity I	
CSCI 401 Capstone Experience in Digital Forensics/Cybersecurity II	
<b>Free Electives</b>	
Selected in consultation with academic advisement.	15
<b>TOTAL:</b>	<b>60</b>

## E. Course Equivalencies

<b>BCC Course</b>	<b>JJC Course</b>
CSI 30 Discrete Mathematics I	MAT 204 Discrete Mathematics
MAT 30 Pre-Calculus Mathematics	MAT 141 Pre-Calculus
MTH 31 Analytic Geometry & Calculus I	MAT 241 Calculus I
MTH 32 Analytical Geometry & Calculus II	MAT 242 Calculus II
MTH 33 Analytical Geometry & Calculus III	MAT 243 Calculus III AND MAT 244 Calculus IV
CSI 31 Intro to Computer Programming I	CSCI 271 Intro to Computing & Programming
CSI 32 Intro to Computer Programming II	CSCI 272 Object Oriented Programming
CSI 33 Data Structures	CSCI 373 Advanced Data Structures
CSI 35 Discrete Mathematics II	CSCI Blanket: Category B Mathematics Electives Major Requirement

## F. Articulation Agreement Follow-Up Procedures

### 1. Procedures for reviewing, up-dating, modifying or terminating agreement:

Bronx Community College and John Jay College will review implementation of the agreement every four years to ensure that students are adequately informed of the program and to identify issues requiring attention.

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

After transfer into the John Jay major, the performance of Bronx Community College students will be tracked using the CUNY Institutional Research Data Base.

Both schools will connect with their respective registrar's offices

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

Notice of articulation will be placed in the respective catalogues, recruiting brochures, and websites.

A coordinator from John Jay College will be available to assist Bronx Community College Students in learning more about opportunities in computer science at John Jay.

Respective transfer and academic advisers will be informed and provided with copies of this agreement.

Effective Date: Academic Year 2020-21

Dr. Lester Edgardo Sandres Rápalo, Vice  
President and Provost for Academic Affairs

Dr. Yi Li, John Jay College Provost and Vice  
President for Academic Affairs

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Signature of Sending College Chief Academic  
Officer

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Signature of Receiving College Chief Academic  
Officer

Dr. Anthony Weaver, Bronx Community  
College Chairperson of the Department of  
Mathematics and Computer Science

Dr. Douglas Salane, John Jay College  
Chairperson of the Department of Mathematics and  
Computer Science

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Signature of Sending College Department  
Chairperson

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Signature of Receiving College Department  
Chairperson