



**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: Science

Program: Science

Degree: Associate in Science (A.S.)

Receiving College:

John Jay College of Criminal Justice

Department: Science

Program: Cell and Molecular Biology

Degree: Bachelors of Science (B.S.)

B. ADMISSION REQUIREMENTS FOR SENIOR COLLEGE PROGRAM

Borough of Manhattan Community College (BMCC) and John Jay College of Criminal Justice hereby enter into this agreement to facilitate an opportunity for students who wish to transfer from BMCC's Associate of Science to the Cell and Molecular Biology major at John Jay of Criminal Justice. This agreement specifies the conditions and requirements necessary for BMCC students to transfer to John Jay College of Criminal Justice.

All students transferring from BMCC's Associate of Science in Science to John Jay College of Criminal Justice in Cell and Molecular Biology program must meet the following general requirements:

- Students must have at least a 2.5 cumulative grade point average (GPA) on a 4.0 scale.
- Successful completion of elementary algebra at a CUNY college (C or better).¹
- Grade of C or better in freshman composition, its equivalent, or a higher-level English course.¹

To earn a Bachelor's Degree, at John Jay College of Criminal Justice of CUNY, Associate Degree graduates need to:

1. Complete at minimum 50% of the courses required for the major/minor in residence;
2. Complete elective courses, if needed;
3. Complete 60 liberal arts credits for the BS.

Determination of the 60 Liberal Arts credits required for the baccalaureate degree in accordance with New York State Education Department requirements will be made by John Jay College of Criminal Justice.

Borough of Manhattan Community College graduates with the Associate Degree in Science will receive 60 credits toward the Bachelors of Science, Cell and Molecular Biology at John Jay College of Criminal Justice. In addition, Associate of Science Degree graduates of CUNY Colleges are exempt from all Required Core and Flexible Core Level courses in John Jay College of Criminal Justice 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**

¹ Effective 10/1/08, per City University of New York policy.

C. COURSE TO COURSE EQUIVALENCIES AND TRANSFER CREDIT AWARDED

Borough of Manhattan Community College

Science Major

Common Core	
Required Common Core	Credits
English Composition	6
Mathematical & Quantitative Reasoning	3
Life & Physical Sciences	3
Total Required Common Core 12	
Flexible Core	
Creative Expression	6
World Culture & Global Issues	3
U.S. Experience in Its Diversity	3
Individual & Society	3
Scientific World	3
Total Flexible Core 18	
Total Common Core 30	
Curriculum Requirements	
Choose 1 sequence from the following introductory science sequences: BIO 210 & BIO 220 – Biology I & II CHE 201 & CHE 202 – College Chemistry I & II PHY 210 & PHY 220 – Physic I & II	8
Choose 16 credits from the following: BIO 210 & BIO 220 – Biology I & II CHE 201 & CHE 202 – College Chemistry I & II ¹ PHY 210 & PHY 220 – Physics I & II BIO 230 – Principles of Microbiology BIO 240 - Genetics CHE 120 – Fundamentals of Org. Chemistry CHE 205 – Quantitative Analysis CHE 230 & CHE 240 – Organic Chemistry I & II ¹ MAT 301 & MAT 302 – Calculus I & II PHY 240 – Modern Physics SCI 120 – Computer Methods in Science SCI 140 – Introduction to Microprocessors SCI 430 – Scientific Instrumentation	16
Modern Foreign Language	3
General Electives	3
Total Curriculum Credits 30	
Total Program Credits 60	

¹ Students are required to take CHE 201 & CHE 202 and CHE 230 & CHE 240.

D. SENIOR COLLEGE UPPER DIVISION COURSES REMAINING FOR BACCALAUREATE DEGREE

John Jay College of Criminal Justice
Cell and Molecular Biology Major

Course Number & Title	Credits
General Education Requirements (from JJC "College Option")	
One 300-level Justice Core course from <i>Struggles for Justice in the U.S. or Justice in Global Perspectives</i>	3
One course from <i>Learning from the Past or Communications</i>	3
Total Gen Ed at JJC	6
Remaining Requirements in Major	
<u>General Science Foundation (3 cr.)</u>	
Statistics MAT 301	3
<u>Biology Core (10 cr.)</u>	
Eukaryotic Cellular Biology BIO 205	3
Genetics BIO 315	3
Molecular Biology (w/ lab) BIO 412	4
Subtotal	10
<u>Biology Electives (13 – 16 cr.)</u>	
<i>Choose 6 courses, with new fewer than 2, but no more than 3, being a lab</i>	
Gender/Sexuality BIO 255	3
Microbiology BIO 211	3
Forensic Biology BIO 244	3
Evolutionary Biology BIO 274	3
Biochemistry w/lab CHE 315 (counts as 1 lecture and 1 lab)	4
Human Physiology BIO 355	3
Neurobiology BIO 375	3
Forensic Anthropology BIO 381	3
Introduction to Toxicology TOX 313	3
Forensic DNA Analysis w/lab BIO 413 (counts as 1 lecture and 1 lab)	4
Methods of Scientific Research SCI 281	3
Anatomy & Physiology Lab BIO 356	2
Genetics Lab BIO 316	2
Microbiology Lab BIO 212	2
Subtotal	13-16
<u>Capstones (3 cr.) Choose one</u>	
Research Internship FOS 402	3
Biology Capstone Course BIO 488	3
Subtotal	3
Total Gen Ed	6
Total credits in major	29-32
Free electives	22-25
Total credits at John Jay	60

	John Jay Total	Taken at BMCC	Taken at John Jay
General Education (Common Core & College Option)	36	30	6
Major	52-55	23	29-32
General Elective	29-32	7	22-25
Total	120	60	60

E. ARTICULATION AGREEMENT FOLLOW-UP PROCEDURES

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

Borough of Manhattan Community College faculty and John Jay College faculty will review and analyze the strength of the curriculum and the success of students on an annual basis as part of their annual assessment activities. Modifications will be made as required.

Changes

Neither party may change this agreement unilaterally. Proposed changes in policies or curricula by either party must be communicated in writing to the other party and agreed upon in consultation with relevant officials, including faculty, of each institution. Any changes agreed upon must be signed, dated, and attached to this agreement.

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

Each semester John Jay College of Criminal Justice 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 John Jay College of Criminal Justice's website. Transfer advisers will be made aware of this agreement and will have available all necessary materials to publicize the agreement to the students with eligible students.

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