

**ARTICULATION AGREEMENT FORM**  
**Effective: Fall 2021**

**A. Sending and Receiving Institutions**

Sending College: Fiorello H. LaGuardia Community College (LAGCC)  
Department: Natural Sciences  
Program: Biology  
Degree: Associate in Science (A.S.)

Receiving College: John Jay College of Criminal Justice (JJC)  
Department: Sciences  
Program: Cell and Molecular Biology (B.S.)  
Degree: Bachelor of Science (B.S.)

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**B. Admission and Retention Requirements for Senior College Program**

- A.S. Degree with a minimum 2.5 GPA in all math and science coursework and a minimum 2.0 overall GPA
- Passing grade in first year English composition, its equivalent, or a higher-level English course
- Passing grade in a minimum 3-credit college-level, credit-bearing mathematics course

Total transfer credits granted toward the baccalaureate degree: 60

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

Total credits required to complete the baccalaureate degree: 120

Students transferring to JJC must complete at least 30 credits at JJC, with at least half of the credits in the major program taken at JJC.

**C. Summary of Transfer Credits from LAGCC and Credits to be completed at JJC**

Cell and Molecular Biology, B.S.	Total Credits for the B.S degree	Transfer Credits From LAGCC	Credits to be Completed at JJC
General Education	42	36	6
Major Requirements	61-63	20	41-43
Electives	15-17	4	11-13
<b>Total</b>	<b>120</b>	<b>60</b>	<b>60</b>

### D. Course to Course Equivalencies and Transfer Credit Awarded

LaGuardia Community College		JJC		
Course Number & Title	Credits	Course Number & Title	Credits	Credits Awarded
<b>Required Core<sup>1</sup></b>				
<b>ENG 101</b> English Composition I	3	<b>ENG 101</b> Exploration & Authorship-an Inquiry-based Writing Course	3	3
<b>ENG 102</b> Writing through Literature	3	<b>ENG 102</b> Disciplinary Investigations-Exploring Writing across the Disciplines	3	3
<i>Select one course from the following:</i> <b>MAT 115</b> College Algebra and Trigonometry	3-4 3	<b>MAT 105</b> College Algebra (fulfilled by either MAT115 or MAT117)	3	3-4
<b>MAT 117</b> Algebra and Trigonometry	3			
<b>MAT 200</b> Precalculus	4			
<b>SCB 201</b> General Biology I	4	<b>BIO 103</b> Modern Biology I	5	4
<b>Subtotal</b>	<b>13-14</b>	<b>Subtotal</b>	<b>13-14</b>	
<b>Flexible Core<sup>1</sup></b>				
<b>World Cultures &amp; Global Issues</b> course	3	<b>World Cultures &amp; Global Issues</b> course	3	3
<b>U.S. Experience In Its Diversity</b> course	3	<b>U.S. Experience In Its Diversity</b> course	3	3
<b>Creative Expression</b> course	3	<b>Creative Expression</b> course	3	3
<b>Individual and Society</b> course	3	<b>Individual and Society</b> course	3	3
<b>Scientific World</b> course		<b>Scientific World</b> course:		
<b>SCC 201</b> General Chemistry I	4	<b>CHE 103</b> General Chemistry I	5	4
<i>Select one additional course from the categories above<sup>2</sup></i> <b>SCC 202</b> General Chemistry II	4	<b>Flexible Core</b> course		
		<b>CHE 104</b> General Chemistry II	4	4
<b>Subtotal</b>	<b>20</b>	<b>Subtotal</b>	<b>20</b>	
<b>Pathways Total</b>	<b>33-34</b>	<b>Pathways Total</b>	<b>33-34</b>	

<b>Program Core Requirements</b>				
<b>NSF 101</b> First Year Seminar for Natural Sciences	2	<b>SCI 100</b> First Year Seminar	2	2
<b>SCB 252</b> Fundamentals of Biotechniques	3	<b>TOX 338</b> Cellular and Molecular Toxicology	3	3
<b>SCB 255</b> Cell Biology	4	<b>BIO 205</b> Eukaryotic Cell Biology	4	4
<b>SCB 202</b> General Biology II	4	<b>BIO 104</b> Modern Biology II	4	4
<b>SCC 251</b> Organic Chemistry I	5	<b>CHE 201</b> Organic Chemistry I	4	5

<sup>1</sup> This program has a waiver to list specific courses to complete Common Core requirements.

<sup>2</sup> Student can select only two courses from any one discipline. MAT 200 is equivalent to JJC MTH 130, which is the pre-requisite for MATH 231 at JJC for students not immediately eligible for MATH 231 via the placement exams.

<b>SCC 252</b> Organic Chemistry II	5	<b>CHE 202</b> Organic Chemistry II	4	5
<b>Free Electives</b>	4	<b>Free Electives</b>	3-4	3-4
<b>Curriculum Subtotal</b>	<b>27</b>	<b>Curriculum Subtotal</b>	<b>27</b>	<b>27</b>
<b>Total for AS degree</b>	<b>60</b>	<b>Total for AS degree</b>	<b>60</b>	<b>60</b>

E. Remaining credits for the Baccalaureate degree in Cell & Molecular Biology

<b>Course</b>	<b>Course Title</b>	<b>Credits</b>
<b>General Education Courses</b>		
College Option	300 Justice Core	3
College Option	Learning from the Past or Communications	3
Subtotal		6
<b>Major Courses</b>		
Part One: General Science Foundation		
MAT 241	Calculus I	4*
MAT 301	Probability & Mathematical Statistics I	3
PHY 101 or PHY 203	College Physics I	4
PHY 102 or PHY 204	College Physics II	4
Subtotal		15
Part Two: Biology Core		
BIO 315	Genetics	3
BIO 412	Molecular Biology	4
CHE 315	Biochemistry	4
Subtotal		11
Part Three: Biology Electives: Choose 12-14 credits including at least 1 course with a lab component.**		
BIO 211	Microbiology	3
BIO 212	Microbiology Lab	2
BIO 255/GEN 255	Biology of Gender and Sexuality	3
BIO 355	Human Physiology	3
BIO 356	Human Anatomy and Physiology Laboratory	2
BIO 360	Human Pathology	4
BIO 364	Forensic Pathology	4
BIO 380	Selected Topics in Biology	3
BIO 382	Selected Topics in Biology with Laboratory	4
BIO 413	Forensic DNA Analysis and Interpretation	4
BIO 488	Cell and Molecular Biology Capstone Course	3
TOX 313	Toxicology of Environmental and Industrial Agents	3
Subtotal		12-14
Part Four: Capstone Course (choose one)		
BIO 488	Cell and Molecular Biology Capstone Course	3
FOS 402	Undergraduate Research Internship	3
Subtotal		3
Major Requirements Subtotal		41-43
General Electives (Consult with an Advisor )		11-13
Total Transfer Credits Applied to Program		60
Total Credits Required after Transfer		60
<b>Total Credits Required for Degree</b>		<b>120</b>

\*Calculus I will be 4 credits beginning fall 2021

\*\* BIO 212 and BIO 356 are lab-only options that may be taken concurrently with or subsequent to their corresponding lecture courses, BIO 211 and BIO 355.

BIO 360, BIO 364, and BIO 413 include laboratory components.

BIO 488 may be taken as an elective only if FOS 402 is taken as the capstone. Consult the major coordinator.

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## F. ARTICULATION AGREEMENT FOLLOW-UP PROCEDURES

### **Procedures for reviewing, updating, modifying or terminating agreement:**

When any of the programs undergo any changes relevant to this agreement, this articulation agreement will be reviewed and revised as necessary by one or two faculty members of each institution's department, selected by their respective Chairpersons to represent them.

At the end of academic year, the various representatives of each institution as indicated above will review the performance of transfer students to determine if adjustment to, or termination of the articulation agreement, is needed.

This articulation agreement will be publicized on both the LaGuardia Community College and JJC websites. Transfer advisers at LAGCC will promote this agreement with eligible students. The faculty representative from JJC's B.S. in Cell and Molecular Biology will arrange an annual information session with the LAGCC campus for interested students.

