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: Toxicology (B.S.)
Degree: Bachelor of Science (B.S.)

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	56-63	20	36-43
Electives	15-22	4	11-18
Total	**120**	**60**	**60**

D. Course to Course Equivalencies and Transfer Credit Awarded

LaGuardia Community College		JJC		
Course Number & Title	**Credits**	**Course Number & Title**	**Credits**	**Credits Awarded**
Required Core[1]				
ENG 101 English Composition I	3	**ENG 101** Exploration & Authorship-an Inquiry-based Writing Course	3	3
ENG 102 Writing through Literature	3	**ENG 102** Disciplinary Investigations-Exploring Writing across the Disciplines	3	3
Select one course from the following: **MAT 115** College Algebra and Trigonometry **MAT 117** Algebra and Trigonometry **MAT 200** Precalculus	3-4 3 3 4	 **MAT 105** College Algebra (fulfilled by either MAT115 or MAT117) **MAT 141** Pre-Calculus	 3 3	3-4
SCB 201 General Biology I	4	**BIO 103** Modern Biology I	5	4
Subtotal	**13-14**		**Subtotal**	**13-14**
Flexible Core[1]				
World Cultures & Global Issues course	3	**World Cultures & Global Issues** course	3	3
U.S. Experience In Its Diversity course	3	**U.S. Experience In Its Diversity** course	3	3
Creative Expression course	3	**Creative Expression** course	3	3
Individual and Society course	3	**Individual and Society** course	3	3
Scientific World course **SCC 201** General Chemistry I	 4	**Scientific World** course: **CHE 103** General Chemistry I	 5	 4
Select one additional course from the categories above[2] **SCC 202** General Chemistry II	 4	**Flexible Core** course **CHE 104** General Chemistry II	 4	 4
Subtotal	**20**		**Subtotal**	**20**
Pathways Total	**33-34**		**Pathways Total**	**33-34**

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

[1] This program has a waiver to list specific courses to complete Common Core requirements.

[2] 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.

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

E. Remaining Credits for the Baccalaureate Degree in Toxicology

Course	Course Title	Credits
General Education Courses		
College Option	300 Justice Core	3
College Option	Learning from the Past or Communications	3
	Subtotal	6
Major Courses		
Part One: General Science Foundation		
MAT 241	Calculus I	4*
MAT 301	Probability & Mathematical Statistics I	3
PHY 101	College Physics I	4
PHY 102	College Physics II	4
	Subtotal	15
Part Two: Toxicology Core		
BIO 355	Human Physiology	3
CHE 315	Biochemistry	4
TOX 313	Toxicology of Environmental and Industrial Agents	3
TOX 425	Techniques of Analytical Toxicology	3
TOX 426	Analytical and Quantitative Toxicology Laboratory	2
TOX 430	Principles of Pharmacological Toxicology	3
	Subtotal	18
Part Three: Electives (Choose two courses; one in each category)		
Category A: Toxicology Electives		
TOX 336	Principles of Forensic Toxicology	3
TOX 338	Cellular and Molecular Toxicology (may be satisfied by SCB 352 at LAGCC)	4
TOX 340	Clinical Toxicology	3
TOX 3ZZ	Principles of Risk Assessment	3
Category B: Biology/Chemistry Electives		
BIO 205	Eukaryotic Cell Biology (may be satisfied by SCB 255 at LAGCC)	3
BIO 211	Microbiology	3
BIO 315	Genetics	3
BIO 356	Human Anatomy and Physiology Laboratory	2
BIO 360	Human Pathology	4
BIO 364	Forensic Pathology	4
CHE 220	Quantitative Analysis	4
CHE 361	Inorganic Chemistry	3
CHE 302	Physical Chemistry II	3
	Subtotal	0-7
Part Four: Capstone Course (choose one)		
TOX 401	Capstone Experience in Toxicology	3
FOS 402	Undergraduate Research Internship	3

Subtotal	3
Major Requirements Subtotal	36-43
General Electives (Consult with an Advisor)	11-18
Total Transfer Credits Applied to Program	60
Total Credits Required after Transfer	60
Total Credits Required for Degree	**120**

F. 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 Toxicology will arrange an annual information session with the LAGCC campus for interested students.

Effective Date:
Review Date:

LaGuardia Community College

11/30/20

Dr. Paul Arcario Date
Provost and Vice President for Academic Affairs

John Jay College of Criminal Justice

Yi Li

Digitally signed by Yi Li
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Date: 2021.01.24 20:38:41 -05'00'

Dr. Yi Li Date
Provost and Vice President of Academic Affairs

11/20/2020

Dr. Maria Entezari Date
Chairperson, Natural Sciences Department

12/01/2020

Dr. Shu-Yuan Cheng Date
Chairperson, Sciences Department