

THE CITY UNIVERSITY OF NEW YORK ARTICULATION AGREEMENT

A. SENDING AND RECEIVING INSTITUTIONS

Sending Institution:	LaGuardia Community College	Receiving Institution:	New York City College of Technology
Department:	Natural Sciences Department	Department:	Biological Sciences Department
Program:	Biology / Biotechnology Track	Program:	Biomedical Informatics
Degree:	Associate of Science	Degree:	Bachelor of Science

B. ADMISSION REQUIREMENTS FOR SENIOR COLLEGE PROGRAM

Minimum GPA

To gain admission to senior college, students must be skill certified, meaning:

- Have earned a grade of 'C' or better in a credit-bearing mathematics course of at least 3 credits
- Have earned a grade of 'C' or better in freshmen composition, its equivalent, or a higher-level English course

Total transfer credits granted toward the baccalaureate degree: 60 credits

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

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

Community College		Senior College		
Course Number & Title	Credits	Course Number & Title	Credits	Credits Awarded
General Education Requirements				
<i>English: 6 credits</i>				
ENG101 – English Composition I	3	ENG 1101 – English Composition I	3	3
ENG102 – Writing through Literature	3	ENG 1121 – English Composition II	3	3
<i>Mathematical and Quantitative Reasoning: 3-4 credits</i>				
MAT115 – College Algebra and Trigonometry or MAT117 – Algebra and Trigonometry	3	Mathematical and Quantitative Reasoning	3	3
<i>Life and Physical Sciences: 3-4 credits</i>				
SCB201 – Fundamental of Biology I	4	BIO 1101 – Biology I	4	4
<i>Flexible: 18 credits</i>				
World Cultures and Global Issues	3	World Cultures and Global Issues	3	3
US Experience in its Diversity	3	US Experience in its Diversity	3	3
Creative Expression	3	Creative Expression	3	3
Individual and Society	3	Individual and Society	3	3
Scientific World				
SCC201 – General Chemistry I	4	CHEM 1110 – General Chemistry I	4	4
SCC202 – General Chemistry II	4	CHEM 1210 – General Chemistry II	4	4
Subtotal				33
Program Core credits				
NSF101 – First Year Seminar	2	Elective	2	2
MAT200 – Precalculus	4	Elective	4	4
SCB257 – Genetics	4	BIO 2450 – Genetics	4	4
SCB252 – Fundamentals of Biotechniques	3	Elective	3	3
SCB202 – General Biology II	4	BIO 1201 – Biology II	4	4
SCC251 – Organic Chemistry I	5	Elective	5	5
SCB207 – Genomics and Bioinformatics	2	Elective	3	3
Unrestricted Elective	2	Elective	2	2
Subtotal				27
Total				60

D. SENIOR COLLEGE COURSES REMAINING FOR BACCALAUREATE DEGREE

Course Number & Title	Credits
General Education Requirements (from "College Option")	
Speech and Oral Communication COM 1330 – Public Speaking or higher	3
Interdisciplinary Course	3
Total Gen Ed	6

Remaining Requirements in Major	
<i>Biomolecular Sciences</i>	
BIO 3620 – Molecular and Cell Biology	4
Subtotal	4
<i>Math and Computer Science</i>	
MAT 1475 – Calculus I	4
MAT 1372 – Statistics with Probability	3
CST 1101 – Problem Solving with Computer Programming	3
CST 1201 – Programming Fundamentals or CST 2403 – Introductory C++ Programming Language I	3
CST 1204 – Database Systems Fundamentals	3
Subtotal	16
<i>Biomedical Informatics Core Courses</i>	
BIO 2110 – Programming for Biologists	4
BIO 3350 – Bioinformatics I	4
BIO 3352 – Bioinformatics II	4
BIO 3450 – Biomedical Data Analytics I	4
BIO 4550 – Biomedical Informatics Colloquium	1
Subtotal	17
<i>Research Experience</i>	
BIO 4900 – Internship/Research in Biomedical Informatics or BIO 4910 – Independent Research Study in Biomedical Informatics, Information Literacy BIO 4920 – Independent Research Study in Biomedical Informatics, Guided Research	5
Subtotal	5
<i>Biomedical Informatics Specialization Courses</i> Choose 3 from the following:	
BIO 3601 – Biochemistry	4
BIO 4150 – Computational Genomics	4
BIO 4250 – Molecular Evolution and Phylogenetics	3
BIO 4350 – Molecular Modeling in Biology	4
BIO 4450 – Data Analytics II	4
Subtotal	11-12
Total credits in major	53-54
Credits Remaining (outside Gen Ed and Major)	
Any course to bring up the total credits to 60 at City Tech (if total credits in major is 53)	0-1
Free electives	0-1
Total Credits to be earned at Senior College:	
	60
Total Credits to be earned at Community College:	
	60
Total Credits required for B.S. degree:	
	120

SAMPLE SEMESTER-BY-SEMESTER COURSEWORK

Semester 1 – 17 credits	Semester 2 – 14 credits	Semester 3 – 15 credits	Semester 4 - 14 credits
BIO 3620 – Molecular and Cell Biology	MAT 1475 – Calculus I	BIO 3352 – Bioinformatics II	BIO 4550 – Biomedical Inform Colloquium
MAT 1372 – Statistics with Probability	CST 1201 – Programming Fundamentals	BIO 3450 – Data Analytics I	2 BIB Specialization Courses
CST 1101 – Prob Solving with Comp Progr	CST 1204 – Database Syst Fundamentals	1 BIB Specialization Course ¹	BIO 4900 or BIO 4910/4920 – Internship
BIO 2110 – Programming for Biologists ¹	BIO 3350 – Bioinformatics I	Any Interdisciplinary (ID) Course	
COM 1330 – Public Speaking		Any course to bring total to 15 cr this sem	

¹ In order for coursework to fit in four semesters, special permission will be provided to students by the Biological Sciences Department to take course along with its prerequisite in the same semester.

E. ARTICULATION AGREEMENT FOLLOW-UP PROCEDURES

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

Community College faculty and Senior 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.

Notice of Cancellation

Either party may independently cancel this agreement by notifying the other party no less than one academic year before the intended date of cancellation.

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

The CUNY Institutional Research Database will be used to track performance (in terms of credit accumulation and GPA) and persistence (in terms of retention and graduation) of all Community College students who transfer to CUNY Senior Colleges.

3. Sending and receiving college procedures for publicizing agreement, e.g., college catalogs, transfer adviser, websites, etc.:

Community College and Senior College will collaborate in publicizing this agreement on their websites and in their catalogs. They will share brochures and other marketing materials including web-based promotions. Transfer advisors will be made aware of this agreement and will have available all necessary materials to publicize the agreement to the students with whom they work.

Effective Date:

F: SIGNATURES

FOR LAGUARDIA COMMUNITY COLLEGE

FOR NEW YORK CITY COLLEGE OF TECHNOLOGY

Prof. Na Xu, PhD
Chair, Natural Sciences Department
LaGuardia Community College

Prof. Andleeb Zameer, PhD
Chair, Biological Sciences Department
New York City College of Technology

Dr. Billie Gastic Rosado, PhD
Provost, Sr. Vice President for Academic Affairs

Dr. Pamela Brown, PhD
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