

**Articulation Agreement between LaGuardia Community College  
(AS in Physical Sciences: Chemistry Track) and Queens College  
(BS in Chemistry)**

**A. SENDING AND RECEIVING INSTITUTIONS**

**Sending College:**

LaGuardia Community College (LaGCC)  
Department: Natural Sciences Department  
Program: Physical Sciences: Chemistry Track  
Degree: Associate in Science (AS)

**Receiving College:**

Queens College (QC)  
Department: Chemistry Department  
Program: Chemistry  
Degree: Bachelor of Science (BS)

Effective: Fall 2024

**B. ADMISSION REQUIREMENTS FOR SENIOR COLLEGE PROGRAM**

The Chemistry Department of Queens College (QC) agrees to accept into the Bachelor of Science program in Chemistry students from LaGuardia Community College (LaGCC) who successfully complete an Associate in Science in Physical Sciences: Chemistry Track and are admitted into the college. Completion of the curriculum includes the attainment of at least a 2.5 overall grade-point average.

QC and LaGCC agree to offer the courses noted in the BS program in Chemistry (QC) and and AS in Physical Sciences: Chemistry Track program at LaGuardia Community College (LaGCC), as described in this agreement, and as outlined in each college's course catalog. Each college agrees to notify the other if course numbers, content, or catalog descriptions change. Furthermore, the parties involved understand that any change in course number, content, or catalog description may require a modification to this agreement.

In order to satisfy the BS degree requirements, students must select the appropriate general education common core and flexible core courses to satisfy CUNY pathway requirements for the degree program.

**Total transfer credits granted toward the baccalaureate degree: 60**

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

Note: Students are guaranteed 60 credits but may transfer more into QC. Students must have a minimum of 120 for the bachelor's degree with at least 30 credits of those taken at QC. Majoring in Chemistry requires a minimum of 'C' grade in the transferred Mathematics, Physics, and Chemistry courses.

### C. COURSE EQUIVALENCIES AND TRANSFER CREDIT AWARDED

Students transferring from LaGCC with an AS in Physical Sciences shall enter the BS Program in Chemistry at Queens College as juniors. The following courses, totaling 60 credits, will be transferred to Queens College as described below.

Requirement	LaGCC Course	Queens College Course	Credits
<b>Required Common Core</b>			
English Composition I	ENG 101 (or ENA101)	ENGL 110	3
English Composition II	ENG 102 (or ENG259)	ENGL 130 (OR ENGL201W)	3
Mathematical and Quantitative Reasoning	MAT 115 College Algebra & Trigonometry (or MAT 117)	MAT115	3
Life and Physical Sciences	SCC 201 General Chemistry I	CHEM 1134 & 1131	4 <sup>1</sup>
<b>Flexible Common Core</b>			
World Cultures and Global Issues	Any approved course		3
US Experience in its Diversity	Any approved course		3
Creative Expression	Any approved course		3
Individual and Society	Any approved course		3
Scientific World	SCC 202 General Chemistry II	CHEM 1144 & 1141	4 <sup>1</sup>
Additional Flexible Core Course	MAT 200 Precalculus I	MATH 122 Precalculus	3 <sup>2</sup>
<b>Common Core Subtotal</b>			<b>32</b>
<b>Requirements for the Major</b>			
Calculus I	MAT 201	MAT 151	4
Calculus II	MAT 202	MAT 152	4
General Physics I	SCP 231	PHYS 1214 and 1211	4 <sup>3</sup>
Organic Chemistry I	SCC 251	CHEM 2514 & 2511	5
Organic Chemistry II	SCC 252	CHEM 2524 & 2521	5
Elective I	SCP 211 Research Methods in Physical Sciences <sup>4</sup>	Elective credit	3
Elective II	NSF 101 First Year Seminar for Natural Sciences <sup>4</sup>	Elective credit	2
<b>Major Requirements Subtotal</b>			<b>27</b>
<b>Total Credits for Degree/Credits Transferred with 1 additional elective credit<sup>2</sup></b>			<b>60</b>

<sup>1</sup>SCC 201 and SCC 202 are 4 credits at LaGCC; CHEM 1134/1131 and CHEM 1144/1141 are 5 credits at QC  
<sup>2</sup>MAT 200 is 4 credits at LaGCC, MAT 122 is 3 credits at QC. [NOTE: IF 1 ELECTIVE CREDIT IS ADDED, IT WILL BRING TOTAL CREDITS TRANSFERRED = 60]

<sup>3</sup>SCP 231 is 4 credits at LaGCC, PHYS 1214 & 1211 is 5 credits at QC

<sup>4</sup>These courses are not required by the Chemistry BS degree; students will receive elective credits. NOTE: For majoring in Chemistry, a grade of 'C' is required in MAT 151 and 152, PHYS 1214/1211, CHEM 1134/1131, 1144/1141, 2514/2511, 2524/2521, and 291. If the grade minimum is not met, student will be accepted in the chem major and given opportunity to repeat the course for meeting the minimum grade requirement.

#### D. SENIOR COLLEGE UPPER DIVISION COURSES REMAINING FOR BACCALAUREATE DEGREE

Students transferring to the BS program in Chemistry at QC from the AS program in Physical Science: Chemistry Track at LaGCC will be required to satisfactorily complete the following courses (totaling 60 credits) at QC.

Requirement	Queens College Course	Credits
<b>Program Requirements</b>		
Biology 1	BIO 105	4
General Physics II	PHYS 1224 & 1221	5
Thermodynamics	CHEM 211	4
Inorganic Chemistry	CHEM 3313 and 3311W	4
Instrumental Methods	CHEM 3413 & 3411	4
Biochemistry I	CHEM 371	4
Senior thesis	CHEM 395W	3
<b>Program Requirements Subtotal<sup>2</sup></b>		<b>28</b>
<b>Additional Required Credits</b>		
Students should opt for one of the two concentrations. Chemistry concentration requires Chem 212 and additional lab and lecture elective as indicated. Biochemistry concentration has a set of 10 required credits as indicated.		
<b>CHEMISTRY CONCENTRATION</b>		
Physical Chemistry 2	CHEM 212 ( 4 cr)	10
Advanced Lecture elective	CHEM 351 OR 352 OR 372 OR 378 (4 cr)	
Advanced Lab elective	CHEM 376 or 3912 ( 2 cr)	
<b>BIOCHEMISTRY CONCENTRATION</b>		
Biochemistry 2	CHEM 372 ( 4 Cr)	10
Physical Biochemistry	CHEM 378 ( 4 cr)	
Biochemistry Lab	CHEM 376 ( 2 cr)	
Additional QC electives to bring the total to 120 credits (60 from LaGCC, 60 from QC)		22
<b>Total QC Program Credits*</b>		<b>60</b>
<b>Total transferred credits</b>		<b>60</b>
<b>Total Credits for BS Degree</b>		<b>120</b>

\*Students are expected to earn a minimum grade of C or better in 100 and 200 level courses and C- in 300 level courses and maintain a GPA of 2.75 overall for graduation with BS degree. A minimum of 25 chemistry course credits must be completed at QC to earn a BS degree in Chemistry at Queens College.

## **E. ARTICULATION AGREEMENT FOLLOW-UP PROCEDURES**

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

When either of the degree programs involved in this agreement undergoes a change, the agreement will be reviewed and revised accordingly by faculty from each institution's respective departments or programs, selected by their Chairpersons and program directors.

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

Queens College (QC) will be able to provide LaGuardia Community College (LaGCC) the following information: the number of LaGCC students who enrolled and their cumulative GPA

### **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 recruiting brochures, as appropriate and websites. Respective transfer and academic advisers will be informed and provided with copies of this agreement.

**Effective Date: Fall 2024**  
**Review Date: Spring 2024**

**Signatures for Queens College:**



---

**Jianbio Liu**  
**Chair, Department of Chemistry**



---

**Patricia Price**  
**Interim Provost and**  
**Senior Vice President for Academic Affairs**

**Signatures for LaGuardia Community College:**



---

**Na Xu, Ph.D**  
**Chair, Department of Natural Sciences**



---

**Billie Gastic Rosado, Ph.D**  
**Provost and Senior Vice President for**  
**Academic Affairs**



---

**Midas Tsai, Ph.D**  
**Negotiating Faculty, Natural Sciences**