

The City University of New York
Articulation Agreement Between
Queensborough Community College
and
The City College of New York

A. Sending and Receiving Institutions

Sending Institution: Queensborough Community College (QCC)
Department: Chemistry
Program: Liberal Arts and Sciences (Mathematics and Science)
Degree: Associate of Science (A.S.)

Receiving Institution: The City College of New York (CCNY)
Department: Chemistry and Biochemistry
Program: Chemistry
Degree: Bachelor of Science (B.S.)

B. Admission Requirements for Senior College Program

Minimum GPA: 2.5

Students must complete the A.S. in Liberal Arts and Sciences (Mathematics and Science) at Queensborough Community College and be admitted to The City College of New York. Upon transfer, students must declare a major in Chemistry.

To graduate from CCNY with a B.S. in Chemistry or Biochemistry, students must earn a C or higher in all chemistry and biochemistry courses. Accordingly, QCC transfer students will not receive credit toward CCNY Chemistry major requirements for QCC courses in which they earned less than a C.

Total transfer credits granted toward the baccalaureate degree: 60 credits. Total additional credits required at The City College of New York to complete the baccalaureate degree: 60 credits.

C. Course-to-Course Equivalencies and Transfer Credit Awarded

Queensborough Community College		The City College of New York		
Course and Title	Credit	Course and Title	Credit	Transfer Credits Awarded
Common Core Requirements		Course Equivalency		
Required Core 1A: ENGL-101 English Composition I ENGL-102 English Composition II	3 3	English Composition 1 and 2: ENGL 11000 Freshman Composition ENGL 21000 Introduction to Academic Writing	3 3	3 3
Required Core 1B: MA-119 College Algebra ^{1,2}	3	Math and Quantitative Reasoning MATH 19000 College Algebra and Trigonometry	3	3
Required Core 1C: CH-151 General Chemistry I ¹	4.5	Life and Physical Sciences: CHEM 10301 General Chemistry I Elective credit	4 0.5	4 0.5
Flexible Core 2A: One course in History or Social Sciences is recommended for either 2A or 2D	3	World Cultures and Global Issues	3	3
Flexible Core 2B: SP-211 Speech Communication ¹ recommended	3	US Experience in Its Diversity	3	3
Flexible Core 2C: Select one course	3	Creative Expression	3	3
Flexible Core 2D: One course in History or Social Sciences is recommended for either 2A or 2D	3	Individual and Society	3	3
Flexible Core 2E: CH-152 General Chemistry II ¹	4.5	Scientific World: CHEM 10401 General Chemistry II Elective credit	4 0.5	4 0.5
Additional Flexible Core Course: CH-251 Organic Chemistry I	5	Additional Flexible Core Course: CHEM 26100 Organic Chemistry I CHEM 27200 Organic Chemistry Laboratory I	3 3	3 2
Subtotal	35	Subtotal	36	35
Requirements for the Major³		Course Equivalency		
Math Requirement: Students must complete MA-441 and any prerequisites that are required based on their math placement ²				
MA-121 Trigonometry	1	Elective Credit	1	1
MA-440 Pre-Calculus Mathematics	4	MATH 19500 Precalculus	4	4
MA-441 Analytic Geometry and Calculus I	4	MATH 20100 Calculus I	4	4
Subtotal	0-9	Subtotal	0-9	
QCC Major Electives^{3,4,5} (recommended choices)				
BI-201 General Biology I	4	BIO 10100 Biological Foundations I	4	4
BI-202 General Biology II	4	BIO 10200 Biological Foundations II	4	4
CH-252 Organic Chemistry II	5	CHEM 26300 Organic Chemistry II CHEM 37400 Organic Chemistry Laboratory II	3 3	3 2
MA-442 Analytic Geometry and Calculus II	4	MATH 21200 Calculus II	4	4
MA-443 Analytic Geometry and Calculus III	4	MATH 21300 Calculus III	4	4
PH-421 General Calculus Physics A	5	PHYS 20700 University Physics I Elective credit	4 1	4 1
PH-422 General Calculus Physics B	5	PHYS 20800 University Physics II Elective credit	4 1	4 1
Subtotal	10-20	Subtotal	10-20	
Additional Requirements		Course Equivalency		
History or Social Science Course ⁶	3	Equivalent based on QCC course taken	3	3
HE-101 Personal Health and Wellness or HE-102 Health, Behavior, and Society	1-2	Elective Credit	–	1-2
One credit in PE-100, PE-500, or DAN-100 series (one credit courses only)	1	Elective Credit	–	1
Subtotal	5-6	Subtotal	5-6	
Total	60	Total	60	

- Notes:
- Students are required to take particular courses in some areas of the Common Core that fulfill both general education and major requirements at QCC. If students do not take the required courses in the Common Core, they will have to take additional credits to complete their degree requirements.
 - Students who place into MA-440 or MA-441 will use that course to satisfy Required Core 1B. A higher math placement will allow students to take additional Major Requirement courses.
 - Students must complete two course sequences in at least two different subject areas (biology, chemistry, computer science, mathematics, and physics). For students following this agreement, one two course sequences in chemistry (CH-251 and CH-252) and one in mathematics (MA-441 and MA-442) are recommended.
 - The previous CCNY math courses were MATH 202 and MATH 203, the chemistry department accepts these as equivalents to MATH 212 and MATH213. Therefore MATH 202/203 can also serve as equivalents for MA-442 Analytic Geometry and Calculus II and III respectively.
 - For the chemistry or biochemistry major requirements, students can take one of two mathematics sequences at CCNY: MATH 20100, MATH 21200, CHEM 25000 or MATH 20100, MATH 21200, MATH 21300. The same applies here.
 - If taken in the Common Core, an additional major elective course is recommended.

All Queensborough Community College students must complete at least two writing intensive courses, designated as "WI" in the course schedule.

D. Senior College Courses Remaining for Baccalaureate Degree

Students must choose one of three concentrations, Standard Chemistry, Environmental Chemistry, or Chemistry for Secondary Education.

Courses remaining for the B.S. in Chemistry, Standard Chemistry concentration

Course and Title	Credits
College Option General Education Courses: choose 6 credits from the following: SPCH 111000, two semesters of foreign language.	
College option Course I	3
College Option Course II	3
Subtotal	6
Major Courses ^{1,2}	
BIO 10100 Biological Foundations I (if not taken at QCC as BI-201)	0-4
BIO 10200 Biological Foundations II (if not taken at QCC as BI-202)	0-4
EAS 10600 Earth Systems Science (taken as alternative to BIO 10200)	0-4
CHEM 32002 Biochemistry I	3
CHEM 26300 Organic Chemistry II (if not taken at QCC as CH-252)	0-3
CHEM 33000 Physical Chemistry I	3
CHEM 33100 Physical Chemistry Laboratory I	2
CHEM 33200 Physical Chemistry II	4
CHEM 37400 Organic Chemistry Laboratory II (if not taken at QCC as CH-252)	0-3
CHEM 42500 Inorganic Chemistry	3
CHEM 43400 Physical Chemistry and Chemical Instrumentation Laboratory II	3
Subtotal	18-32
Pathways Courses	
MATH 21200 Calculus II (if not taken at QCC as MA-442)	0-4
MATH 21300 Calculus III (if not taken at QCC as MA-443) or CHEM 25000 Mathematics for Physical Chemistry	0-4
PHYS 20700 University Physics I (if not taken at QCC as PH-421)	0-4
PHYS 20800 University Physics II (if not taken at QCC as PH-422)	0-4
Subtotal	0-16
Total Credits at CCNY Required for the B.S. in Chemistry	24-44
Additional course work at CCNY to reach 120 credits²	16-36
Total credits to be earned at The City College of New York	60

Courses remaining for the B.S. in Chemistry, Environmental Chemistry concentration

Course and Title	Credits
College Option General Education Courses: choose 6 credits from the following: SPCH 111000, two semesters of foreign language.	
College option Course I	3
College Option Course II	3
Subtotal	6
Major Courses ^{1,2}	
CHEM 24300 Quantitative Analysis	4
CHEM 32002 Biochemistry I	3
CHEM 26300 Organic Chemistry II (if not taken at QCC as CH-252)	0-3
CHEM 33000 Physical Chemistry I	3
CHEM 33100 Physical Chemistry Laboratory I	2
CHEM 33200 Physical Chemistry II	4
CHEM 37400 Organic Chemistry Laboratory II (if not taken at QCC as CH-252)	0-3
CHEM 42500 Inorganic Chemistry	3
CHEM 43400 Physical Chemistry and Chemical Instrumentation Laboratory II	3
CHEM 40600 Environmental Chemistry	3
CHEM 40601 Environmental Chemistry Laboratory	2
CHEM 40700 Environmental Organic Chemistry	3
Subtotal	30-36
Pathways Courses	
MATH 21200 Calculus II (if not taken at QCC as MA-442)	0-4
MATH 21300 Calculus III (if not taken at QCC as MA-443) or CHEM 25000 Mathematics for Physical Chemistry	0-4
PHYS 20700 University Physics I (if not taken at QCC as PH-421)	0-4
PHYS 20800 University Physics II (if not taken at QCC as PH-422)	0-4
Subtotal	0-16
Total Credits at CCNY Required for the B.S. in Chemistry	36-58
Additional course work at CCNY to reach 120 credits²	2-24
Total credits to be earned at The City College of New York	60

Courses remaining for the B.S. in Chemistry, Chemistry for Secondary Education concentration

Course and Title	Credits
College Option General Education Courses: choose 6 credits from the following: SPCH 111000, two semesters of foreign language.	
College option Course I	3
College Option Course II	3
Subtotal	6
Major Courses ^{1,2}	
CHEM 24300 Quantitative Analysis	4
CHEM 26300 Organic Chemistry II (if not taken at QCC as CH-252)	0-3
CHEM 33000 Physical Chemistry I	3
CHEM 33100 Physical Chemistry Laboratory I	2
CHEM 33200 Physical Chemistry II	4
CHEM 43400 Physical Chemistry and Chemical Instrumentation Laboratory II	3
EDSE 32500: Special Issues for Secondary School Teachers	2
EDSE 32500 Special Issues for Secondary School Teachers	2
EDCE 41900 Professional Development Seminar	0
EDSE 44300 Methods of Teaching Science	4
EDSE 44301 Adolescent Learning of Science	1
EDSE 45103 Curriculum and Instruction in Science Education	4
EDSE 46300 Student Teaching in Middle and Secondary Education	4
EDSE 46301 Teacher Education Seminar	2
SPED 32000: Introduction to Inclusive Education	3
Subtotal	38-41
Pathways Courses	
MATH 21200 Calculus II (if not taken at QCC as MA-442)	0-4
MATH 21300 Calculus III (if not taken at QCC as MA-443) or CHEM 25000 Mathematics for Physical Chemistry	0-4
PHYS 20700 University Physics I (if not taken at QCC as PH-421)	0-4
PHYS 20800 University Physics II (if not taken at QCC as PH-422)	0-4
Subtotal	0-16
Total Credits at CCNY Required for the B.S. in Chemistry	44-63
Additional course work at CCNY to reach 120 credits²	0-16
Total credits to be earned at The City College of New York	60

Notes:

1. Students who have not completed all of the major elective courses in the Table in Part C above while at QCC must complete the remaining courses at CCNY.
2. Students must earn at least 30 of their major coursework credits in residence at CCNY. Additionally, students must earn at least 60% of their major coursework credits at CCNY. Accordingly, transfer students will not be permitted to count more than 16 credits of QCC biology and chemistry courses toward the CCNY biochemistry major requirements.
3. **ACS Certification.** It is possible for students at City College to receive an American Chemical Society (ACS) Approved degree. An ACS Approved degree is an additional level of qualification that is looked upon favorably by employers. For ACS certification, the student must complete the following courses or their equivalents: General Chemistry CHEM 10301 and 10401 Foundation Courses CHEM 24300, 26100, 33000, 32002, 42500 Advanced Courses Standard Chemistry: CHEM 26300, 33200 Biochemistry: CHEM 43500, 48005. In addition, a total number of laboratory hours must be met (400 h not including General Chemistry). This is met by the lab courses combined with independent research, working with a faculty member in their research group. In Standard Chemistry: CHEM 24300 (60 h), 27200 (75 h), 37400 (75 h), 33100 (60 h), 43400 (75 h), Independent Study/Honors Research (minimum 55 h which is approximately 1 semester for 3 credits) Biochemistry: CHEM 24300 (60 h), 27200 (75 h), 37400 (75 h), 32004 (60 h), 43500 (60 h), Independent Study/Honors Research (minimum 70 h which is approximately 2 semesters for 3 credits each).

E. Summary of Credits Required

Total credits to be earned at Queensborough Community College	60
Total credits to be earned at The City College of New York	60
Total credits required for the B.S. degree	120

F. Articulation Agreement Follow-up Procedures

Procedures for reviewing, updating, modifying, or terminating the agreement:

This agreement will be valid for 3 academic years from the Effective Date (below). Each year, there will be a review of the agreement's effectiveness by the Academic Affairs Officers at each institution.

When any of the programs within this agreement undergo any changes relevant to this agreement, this agreement will be reviewed and revised as necessary by the Curriculum Committees of both the sending and receiving program.

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

Procedures for evaluating agreement:

The academic department, advisement centers, and Offices of Institutional Effectiveness from each campus will keep data on the academic progress of the transfer students. Upon request, The City College of New York will provide Queensborough Community College with names and academic status of all recent transfer students from QCC pursuing the abovementioned bachelor's degree program.

Sending and receiving college procedures for publicizing agreement:

Queensborough Community College and The City College of New York 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.

Members of the Senior College Enrollment Management Division will have this agreement and attend recruitment events at the Sending Institution. They will be assisted by the Office of Academic Affairs and the Transfer Resource Center at Queensborough Community College.

Effective Date: Fall 2022

For Queensborough Community College:

For The City College of New York:


Sandra Palmer (Jun 7, 2022 14:49 EDT)

Jun 7, 2022

Sandra Palmer, Ph.D.
Interim Provost and Vice-President
for Academic Affairs

Date



Jun 7, 2022

Tony M. Liss, Ph.D.
Provost and Senior Vice President for
Academic Affairs

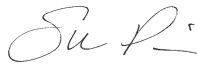
Date



Jun 7, 2022

Michael Pullin, Ph.D.
Dean of Academic Initiatives

Date



Jun 7, 2022

Susan L. Perkins, Ph.D.
Dean of Science

Date



Jun 7, 2022

Sasan Karimi, Ph.D.
Professor and Chair, Department
of Chemistry

Date



Jun 7, 2022

Stephen O'Brien, Ph.D.
Chair, Department of Chemistry and
Biochemistry

Date

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Articulation Agreement Between
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Department: Chemistry
Program: Liberal Arts and Sciences (Mathematics and Science)
Degree: Associate of Science (A.S.)

Receiving Institution: The City College of New York (CCNY)
Department: Chemistry and Biochemistry
Program: Biochemistry
Degree: Bachelor of Science (B.S.)

B. Admission Requirements for Senior College Program

Minimum GPA: 2.5

Students must complete the A.S. in Liberal Arts and Sciences (Mathematics and Science) at Queensborough Community College and be admitted to The City College of New York. Upon transfer, students must declare a major in Biochemistry.

To graduate from CCNY with a B.S. in Biochemistry, students must earn a C or higher in all chemistry and biochemistry courses. Accordingly, QCC transfer students will not receive credit toward CCNY Biochemistry major requirements for QCC courses in which they earned less than a C.

Total transfer credits granted toward the baccalaureate degree: 60 credits. Total additional credits required at The City College of New York to complete the baccalaureate degree: 60 credits.

C. Course-to-Course Equivalencies and Transfer Credit Awarded

Queensborough Community College		The City College of New York		
Course and Title	Credit	Course and Title	Credit	Transfer Credits Awarded
Common Core Requirements		Course Equivalency		
Required Core 1A: ENGL-101 English Composition I ENGL-102 English Composition II	3 3	English Composition 1 and 2: ENGL 11000 Freshman Composition ENGL 21000 Introduction to Academic Writing	3 3	3 3
Required Core 1B: MA-119 College Algebra ^{1,2}	3	Math and Quantitative Reasoning MATH 19000 College Algebra and Trigonometry	3	3
Required Core 1C: CH-151 General Chemistry I ¹	4.5	Life and Physical Sciences: CHEM 10301 General Chemistry I Elective credit	4 0.5	4 0.5
Flexible Core 2A: One course in History or Social Sciences is recommended for either 2A or 2D	3	World Cultures and Global Issues	3	3
Flexible Core 2B: SP-211 Speech Communication ¹ recommended	3	US Experience in Its Diversity	3	3
Flexible Core 2C: Select one course	3	Creative Expression	3	3
Flexible Core 2D: One course in History or Social Sciences is recommended for either 2A or 2D	3	Individual and Society	3	3
Flexible Core 2E: CH-152 General Chemistry II ¹	4.5	Scientific World: CHEM 10401 General Chemistry II Elective credit	4 0.5	4 0.5
Additional Flexible Core Course: CH-251 Organic Chemistry I	5	Additional Flexible Core Course: CHEM 26100 Organic Chemistry I CHEM 27200 Organic Chemistry Laboratory I	3 3	3 2
Subtotal	35	Subtotal	36	35
Requirements for the Major³		Course Equivalency		
Math Requirement: Students must complete MA-441 and any prerequisites that are required based on their math placement ²				
MA-121 Trigonometry	1	Elective Credit	1	1
MA-440 Pre-Calculus Mathematics	4	MATH 19500 Precalculus	4	4
MA-441 Analytic Geometry and Calculus I	4	MATH 20100 Calculus I	4	4
Subtotal	0-9	Subtotal	0-9	
QCC Major Electives^{3,4,5} (recommended choices)				
BI-201 General Biology I	4	BIO 10100 Biological Foundations I	4	4
BI-202 General Biology II	4	BIO 10200 Biological Foundations II	4	4
CH-252 Organic Chemistry II	5	CHEM 26300 Organic Chemistry II CHEM 37400 Organic Chemistry Laboratory II	3 3	3 2
MA-442 Analytic Geometry and Calculus II	4	MATH 21200 Calculus II	4	4
MA-443 Analytic Geometry and Calculus III	4	MATH 21300 Calculus III	4	4
PH-421 General Calculus Physics A	5	PHYS 20700 University Physics I Elective credit	4 1	4 1
PH-422 General Calculus Physics B	5	PHYS 20800 University Physics II Elective credit	4 1	4 1
Subtotal	10-20	Subtotal	10-20	
Additional Requirements		Course Equivalency		
History or Social Science Course ⁶	3	Equivalent based on QCC course taken	3	3
HE-101 Personal Health and Wellness or HE-102 Health, Behavior, and Society	1-2	Elective Credit	–	1-2
One credit in PE-100, PE-500, or DAN-100 series (one credit courses only)	1	Elective Credit	–	1
Subtotal	5-6	Subtotal	5-6	
Total	60	Total	60	60

- Notes:
- Students are required to take particular courses in some areas of the Common Core that fulfill both general education and major requirements at QCC. If students do not take the required courses in the Common Core, they will have to take additional credits to complete their degree requirements.
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 - Students must complete two course sequences in at least two different subject areas (biology, chemistry, computer science, mathematics, and physics). For students following this agreement, one two course sequences in chemistry (CH-251 and CH-252) and one in mathematics (MA-441 and MA-442) are recommended.
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 - If taken in the Common Core, an additional major elective course is recommended.

All Queensborough Community College students must complete at least two writing intensive courses, designated as "WI" in the course schedule.

D. Senior College Courses Remaining for Baccalaureate Degree

Courses remaining for the B.S. in Biochemistry

Course and Title	Credits
College Option General Education Courses: choose 6 credits from the following: SPCH 111000, two semesters of foreign language.	
College option Course I	3
College Option Course II	3
Subtotal	6
Major Courses ^{1,2}	
BIO 10100 Biological Foundations I (if not taken at QCC as BI-201)	0-4
BIO 10200 Biological Foundations II (if not taken at QCC as BI-202)	0-4
BIO 20600 Introduction to Genetics or BIO 22900 Cell and Molecular Biology	4
CHEM 24300 Quantitative Analysis	4
CHEM 26300 Organic Chemistry II (if not taken at QCC as CH-252)	0-3
CHEM 32002 Biochemistry I	3
CHEM 32004 Biochemistry Laboratory	2
CHEM 33000 Physical Chemistry I	3
CHEM 37400 Organic Chemistry Laboratory II (if not taken at QCC as CH-252)	0-3
CHEM 43500 Physical Biochemistry	5
CHEM 48005 Biochemistry II	3
Subtotal	24-38
Pathways Courses	
MATH 21200 Calculus II (if not taken at QCC as MA-442)	0-4
MATH 21300 Calculus III (if not taken at QCC as MA-443) or CHEM 25000 Mathematics for Physical Chemistry	0-4
PHYS 20700 University Physics I (if not taken at QCC as PH-421)	0-4
PHYS 20800 University Physics II (if not taken at QCC as PH-422)	0-4
Subtotal	0-16
Total Credits at CCNY Required for the B.S. in Chemistry	30-60
Additional course work at CCNY to reach 120 credits²	0-30
Total credits to be earned at The City College of New York	60

Notes:

1. Students who have not completed all of the major elective courses in the Table in Part C above while at QCC must complete the remaining courses at CCNY.
2. Students must earn at least 30 of their major coursework credits in residence at CCNY. Additionally, students must earn at least 60% of their major coursework credits at CCNY. Accordingly, transfer students will not be permitted to count more than 16 credits of QCC biology and chemistry courses toward the CCNY biochemistry major requirements.
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E. Summary of Credits Required

Total credits to be earned at Queensborough Community College	60
Total credits to be earned at The City College of New York	60
Total credits required for the B.S. degree	120

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For The City College of New York:


Sandra Palmer (Jun 7, 2022 14:49 EDT)

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Interim Provost and Vice-President
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Sasan Karimi, Ph.D.
Professor and Chair, Department
of Chemistry

Date



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Stephen O'Brien, Ph.D.
Chair, Department of Chemistry and
Biochemistry

Date











QCC to CCNY Chemistry and Biochemistry articulation agreements 2022

Final Audit Report

2022-06-07

Created:	2022-06-07
By:	Michael Pullin (mpullin@qcc.cuny.edu)
Status:	Signed
Transaction ID:	CBJCHBCAABAAAcuviBAL9bXxXSIpMqdc_fnEIMY5uVlyu

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-  Document created by Michael Pullin (mpullin@qcc.cuny.edu)
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-  Document emailed to Sasan Karimi (skarimi@qcc.cuny.edu) for signature
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 Document e-signed by Stephen O'Brien (sobrien@ccny.cuny.edu)

Signature Date: 2022-06-07 - 6:20:50 PM GMT - Time Source: server- IP address: 67.83.44.133

 Document e-signed by Sandra Palmer (spalmer@qcc.cuny.edu)

Signature Date: 2022-06-07 - 6:49:27 PM GMT - Time Source: server- IP address: 146.111.194.3

 Agreement completed.

2022-06-07 - 6:49:27 PM GMT