The City University of New York

Articulation Agreement Between

Queensborough Community College

and

Queens College

A. Sending and Receiving Institutions

Sending Institution: Queensborough Community College
Department: Physics
Program: Physics
Degree: Associate of Science (A.S.)

Receiving Institution: Queens College
Department: Physics
Program: Physics
Degree: Bachelor of Arts (B.A.)

B. Admission Requirements for Queens College Physics Program

Minimum GPA: 2.0

To take advantage of this articulation agreement, students must complete the A.S. in Physics at Queensborough Community College prior to transfer to Queens College. Upon transfer, students must declare a major in Physics. All transfer courses credited toward the physics major must be completed with a grade of C- or better.

The equivalencies in this agreement assume that the student has completed their Associate's degree. Course equivalency information will be entered in both the *University Course Guide* database and the Website. When the receiving college awards transfer credit for either a block of courses or for an entire program rather than for individual courses, it may not be necessary to list individual course equivalencies.

Total transfer credits granted toward the baccalaureate degree: 60 credits. Total additional credits required at the Queens College to complete the baccalaureate degree: 60 credits

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

Queensborough Community College		Queens College		
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 110 College Writing I ENGL 130 Writing about Literature in English	3 3	3 3
Required Core 1B: MA-440 Pre-Calculus Mathematics[1,2]	4	Math and Quantitative Reasoning: MATH 122 Precalculus	4	4
Required Core 1C: PH-421 General Calculus Physics A	5	PHYS 145 Principles of Physics I and Lab	5	5
Flexible Core 2A: Select any courses in 2A	3	World Cultures and Global Issues	3	3
Flexible Core 2B: Select any courses in 2B	3	US Experience in Its Diversity	3	3
Flexible Core 2C: Select any courses in 2C	3	Creative Expression	3	3
Flexible Core 2D: Select any courses in 2D	3	Individual and Society	3	3
Flexible Core 2E: PH-422 General Calculus Physics B	5	PHYS 146 Principles of Physics II and Lab	5	5
Additional Flexible Core Course: MA-441 Analytic Geometry and Calculus I[2]	4	Additional Flexible Core Course: MATH 151 Calculus/Differentiation and Integration	4	4
Subtotal	**36**	**Subtotal**		**36**
Requirements for the Major		**Course Equivalency**		
PH-160 Physics Colloquium	1	PHYS 380 Colloquium	1	1
PH-440 Modern Physics	4	PHYS 260 Introduction to Modern Physics	4	4
MA-442 Analytic Geometry and Calculus II[2]	4	MATH 152 Calculus/Integration and Infinite Series	4	4
MA-443 Analytic Geometry and Calculus III	4	MATH 201 Multivariable Calculus	4	4
One credit in PE-400, PE-500, or DAN-100 series (one credit courses only)	1	Elective Credit	–	1
Subtotal	**14**	**Subtotal**		**14**
Major Electives[2]		**Course Equivalency**		
Take 10 credits from the following list:				
CH-151 General Chemistry I	4.5	CHEM 113 General Chemistry I and Lab	5	4.5
CH-152 General Chemistry II	4.5	CHEM 114 General Chemistry II and Lab	5	4.5
MA-119 College Algebra[1]	3	MATH 115 College Algebra for Precalculus	3	3
MA-121 Trigonometry[1]	1	Elective Credit	1	1
MA-451 Differential Equations	4	MATH 223 Differential Equations with Numerical Methods I	3	3
MA-461 Linear Algebra	4	MATH 231 Linear Algebra I	4	4
PH-240 Computerized Physical Measurement Using Graphical Programming	3	Elective Credit	–	3
PH-414 Analytical Mechanics	4	PHYS 237 Mechanics	4	4
PH-415 Electricity and Magnetism	4	PHYS 310 Electromagnetism 1	4	4
PH-416 Thermodynamics	4	PHYS 242 Thermodynamics	3	3
PH-450 Introduction to Physics Research	3	Elective Credit	–	3
PH 451 Numerical Methods	3	PHYS 275 Intro. to Scientific Computing	4	3
PH-501 Special Topics	3	PHYS 383 Special Topics	3	3
PH-900 Independent Study Physics Research	2	Elective Credit	–	2
		Additional Elective Credit	–	0-1
Subtotal	**10[2]**	**Subtotal**		**10**
Total	**60**	**Total**		**60**

Notes:

1. Depending on their math placement, students may be required to complete MA-119 and/or MA-121 (both with a C or better) prior to MA-440. When required by math placement, MA-119 and MA-121 will count as major electives.

2. Students who place into mathematics at MA-441 will use that course to satisfy Required Core 1B, use MA-442 in the Flexible Core, and take an additional 4 credits of major elective courses to reach 60 credits.

All Queensborough Community College students must complete at least two writing intensive courses, designated as "WI" in the course schedule. Transfer students must take at least one writing intensive course at Queens College, designated W, but this can overlap with the College Option Literature requirement and does not add to the required number of credits.

D. Senior College Courses Remaining for Baccalaureate Degree

Students pursuing the B.A. in Physics much choose either a Physics Option or an Applied Physics Option. Tables for both options are included below. Transfer students should consult with the major advisor in the Queens College Physics Department (info@physics.qc.cuny.edu) prior to enrolling in classes at Queens College.

Physics Option

Course and Title	Credits
College Option General Education Courses	
One Literature Course (LIT)	3
One Language Course (LANG)	3
Major Courses	
PHYS 222 Optics	3
PHYS 233 Intermediate Methods of Math Physics I	3
PHYS 234 Intermediate Methods of Math Physics II	3
PHYS 235 Classical Physics Laboratory	2
PHYS 237 Mechanics (or PH-414 at QCC)	0-4
PHYS 242 Thermodynamics OR PHYS 243 Thermodynamics and Statistical Mechanics (or PH-416 at QCC)	0-4
PHYS 310 Electromagnetism I (or PH-415 at QCC)	0-4
PHYS 365 Principles of Quantum Mechanics	4
PHYS 377 Modern Physics Laboratory	2
One 3- or 4-credit physics course at the 200 level or above (excluding PHYS 204 and 207).	3-4
Subtotal	**26-39**
Additional course work to reach 120 credits	**21-34**
Total credits to be earned at Queens College	**60**

Note: The above table assumes students completed MA-442, MA-443, and PH-440 at QCC. If those courses were not completed at QCC, then the courses must be completed at Queens College.

Applied Physics Option

Course and Title	Credits
College Option General Education Courses	
One Literature Course (LIT)	3
One Language Course (LANG)	3
Major Courses	
PHYS 225 Introduction to Solid State Electronics	4
PHYS 233 Intermediate Methods of Math Physics I	3
PHYS 235 Classical Physics Laboratory	2
PHYS 237 Mechanics (or PH-414 at QCC)	0-4
PHYS 242 Thermodynamics (or PH-416 at QCC)	0-3
PHYS 310 Electromagnetism I (or PH-415 at QCC)	0-4
PHYS 377 Modern Physics Laboratory	2
Three 3- or 4-credit physics course at the 200 level or above (excluding PHYS 204 and 207).	9-12
One science/mathematics course approved by the department (or CH-151 at QCC)	0-4
Subtotal	**29-44**
Additional course work to reach 120 credits	**16-31**
Total credits to be earned at Queens College	**60**

Note: The above table assumes students completed MA-442, MA-443, and PH-440 at QCC. If those courses were not completed at QCC, then the courses must be completed at Queens College.

E. Summary of credits required

Total credits to be earned at Queensborough Community College	60
Total credits to be earned at Queens College	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, Queens College 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 Queens 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.

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.

Additional Information

This agreement is deemed to be consistent with the CUNY Pathways General Education curriculum, and will be updated whenever necessary in keeping with changes in the Pathways curriculum. Queens College requires 6-7 credits of additional Pathways classes as part of the College Option, which includes a literature and a language requirement, as well as two Writing Intensive (W) units, with a minimum of one in residency. Writing Units may overlap with other requirements. According to the specifics in this agreement, students will complete a minimum of 60 credits at each institution; however, students who transfer into Queens with more than 60 credits must complete at least 45 credits at Queens College to earn a Queens College degree.

Effective Date: Fall 2021

For Queensborough Community College: *For Queens College:*

Timothy G. Lynch   _Elizabeth Hendrey_
<small>Timothy G. Lynch (Sep 9, 2020 17:16 EDT)</small>   Sep 9, 2020   <small>Elizabeth Hendrey (Sep 10, 2020 09:42 EDT)</small>   Sep 10, 2020

Timothy Lynch, Ph.D.   Date   Elizabeth Hendrey, Ph.D.   Date
Provost and Senior Vice-President   Provost and Senior Vice President for
for Academic Affairs   Academic Affairs

Michael Pullin
<small>Michael Pullin (Sep 10, 2020 10:29 EDT)</small>   Sep 10, 2020   <small>Alicia M. Alvero (Sep 9, 2020 17:13 EDT)</small>   Sep 9, 2020

Michael Pullin, Ph.D.   Date   Alicia Alvero, Ph.D.   Date
Associate Dean of Academic   Associate Provost
Affairs

<small>David H Lieberman (Sep 9, 2020 13:41 EDT)</small>   Sep 9, 2020   <small>Steven Schwarz (Sep 9, 2020 14:38 EDT)</small>   Sep 9, 2020

David Lieberman, Ph.D.   Date   Dr. Steven A. Schwarz   Date
Chair, Department of Physics   Chair, Physics Department

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Total transfer credits granted toward the baccalaureate degree: 60 credits. Total additional credits required at the Queens College to complete the baccalaureate degree: 60 credits

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

Queensborough Community College		Queens College		
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Additional Flexible Core Course: MA-441 Analytic Geometry and Calculus I$_2$	4	Additional Flexible Core Course: MATH 151 Calculus/Differentiation and Integration	4	4
Subtotal	**36**	**Subtotal**		**36**
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One credit in PE-400, PE-500, or DAN-100 series (one credit courses only)	1	Elective Credit	–	1
Subtotal	**14**	**Subtotal**		**14**
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MA-121 Trigonometry$_1$	1	Elective Credit	1	1
MA-451 Differential Equations	4	MATH 223 Differential Equations with Numerical Methods I	3	3
MA-461 Linear Algebra	4	MATH 231 Linear Algebra I	4	4
PH-240 Computerized Physical Measurement Using Graphical Programming	3	Elective Credit	–	3
PH-414 Analytical Mechanics	4	PHYS 237 Mechanics	4	4
PH-415 Electricity and Magnetism	4	PHYS 310 Electromagnetism 1	4	4
PH-416 Thermodynamics	4	PHYS 242 Thermodynamics	3	3
PH-450 Introduction to Physics Research	3	Elective Credit	–	3
PH 451 Numerical Methods	3	PHYS 275 Intro. to Scientific Computing	4	3
PH-501 Special Topics	3	PHYS 383 Special Topics	3	3
PH-900 Independent Study Physics Research	2	Elective Credit	–	2
		Additional Elective Credit	–	0-1
Subtotal	**10$_2$**	**Subtotal**		**10**
Total	**60**	**Total**		**60**

Notes:

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PHYS 243 Thermodynamics and Statistical Mechanics	4
PHYS 310 Electromagnetism I (or PH-415 at QCC)	0-4
PHYS 311 Electromagnetism 2	4
PHYS 345 Solid State Physics	4
PHYS 365 Principles of Quantum Mechanics	4
PHYS 377 Modern Physics Laboratory	2
One 3- or 4-credit physics course at the 200 level or above (excluding PHYS 204 and 207).	3-4
One science/mathematics course approved by the department (or CH-151 at QCC)	0-4
Subtotal	**38-51**
Additional course work to reach 120 credits	**9-22**
Total credits to be earned at Queens College	**60**

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E. Summary of credits required

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Timothy G. Lynch	Sep 9, 2020		*Elizabeth Hendrey*	Sep 10, 2020
Timothy G. Lynch (Sep 9, 2020 17:16 EDT)			Elizabeth Hendrey (Sep 10, 2020 09:42 EDT)	

Timothy Lynch, Ph.D.   Date
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Chair, Department of Physics

Steven Schwarz (Sep 9, 2020 14:38 EDT)   Sep 9, 2020

Dr. Steven A. Schwarz   Date
Chair, Physics Department

QCC Physics to QC Physics Articulation Agreements 2021

Final Audit Report   2020-09-10

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By:	Michael Pullin (mpullin@qcc.cuny.edu)
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"QCC Physics to QC Physics Articulation Agreements 2021" History

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Signature Date: 2020-09-10 - 2:29:20 PM GMT - Time Source: server- IP address: 108.6.134.128

✅ Signed document emailed to Steven Schwarz (steven.schwarz@qc.cuny.edu), Alicia M. Alvero (alicia.alvero@qc.cuny.edu), Timothy G. Lynch (tlynch@qcc.cuny.edu), Elizabeth Hendrey (elizabeth.hendrey@qc.cuny.edu), and 2 more
2020-09-10 - 2:29:20 PM GMT

📕 **Adobe Sign**