



NEW YORK CITY COLLEGE OF TECHNOLOGY
OF THE CITY UNIVERSITY OF NEW YORK
300 JAY STREET x BROOKLYN
NEW YORK 11201-2983
Physics Department
Room Pearl N811, Tel: (718) 260-5257

B. S. Degree in Applied Computational
Physics
Articulation Agreement with La Guardia Community
College
A. S in Physical Sciences: Physics
Track

A. SENDING AND RECEIVING INSTITUTIONS

Sending College: La Guardia Community College (LAGCC)
Department: Natural Sciences Department
Program: Physical Sciences: Physics Track
Degree: Associate in Science (AS)

Receiving College: New York City College of Technology (NYCCT)
Department: Physics Department
Program: Applied Computational Physics
Degree: Bachelor of Science (BS)

B. ADMISSION REQUIREMENTS FOR SENIOR COLLEGE PROGRAM

To be eligible for this articulation agreement, students must:

Have earned the AS in Physical Sciences degree from LaGCC with a minimum 2.50 GPA.

Satisfy the College requirements for admission into a baccalaureate program;

Students who wish to transfer but do not meet all of the above requirements or are unable to enroll within two years after graduation will receive admission consideration under our standard transfer credit policies.

Total transfer credit granted toward baccalaureate degree: 6.0

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

NYCCT and LAGCC agree to offer the courses noted in the BS program in Applied Computational Physics (NYCCT) and AS in Physical Sciences: Physics Track program at La Guardia 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.

C. COURSE EQUIVALENCIES AND TRANSFER CREDIT AWARDED

Students transferring from LAGCC with an AS in Physical Sciences shall enter the BS Program in Applied Computational Physics at NYCCT as third year students. The following courses, totaling 60 credits, will be transferred to NYCCT.

ASSOCIATE IN PHYSICAL SCIENCES

COMMON CORE			
Required Common Core			
English Composition (two terms)	ENG101 and ENG102 or ENG259		6
Mathematical and Quantitative Reasoning	Note: Students in this program at LAGCC have the option to choose between: MAT115 College Algebra and Trigonometry (3 cr) and MAT117 Algebra and Trigonometry (3 cr)		3
Life/Physical Sciences	SCC201 General Chemistry I		4
<i>Total Required Common Core</i>			13
Flexible Core			
Creative Expression			3
Scientific World	MAT200 PreCalculus I (4 cr) SCP231 General Physics I (4 cr)		8
Individual and Society			3
World and Global Issues			3
US Experience in its Diversity			3
<i>Total Flexible Core</i>			20
<i>Total Common Core</i>			33
CURRICULUM REQUIREMENTS			
<i>LAGCC course</i>	<i>COURSE NAME</i>	<i>NYCCT Equivalent</i>	
MAT201	Calculus I	MATH 1475	4
MAT202	Calculus II	MATH 1575	4
MAT203	Calculus III	MATH 2675	4
SCP232	General Physics II	PHYS 1442	4
SCP233	Modern Physics	PHYS 2443	4
SCP211	Research Methods in Physical Sciences	Elective	3
NSF101	First Year Seminar	Elective	2
	Unrestricted electives: 2 credits*	Elective	2
<i>Total Curriculum Requirements</i>			27
Total Program Credits			60

Note: (*) Students in the AS program at LAGCC might consider taking MAC101 (equivalent to CST1101 at City Tech) as their "Unrestricted electives" course.

TOTAL NUMBER OF CREDITS TRANSFERRED: 60

D. SENIOR COLLEGE UPPER DIVISION COURSES REMAINING FOR BS DEGREE

Students transferring to the BS program in Applied Computational Physics at NYCCT from the AS in Physical Sciences: Physics Track at LAGCC will be required to satisfactorily complete the following courses (totaling 60 credits) at NYCCT.

COLLEGE OPTION REQUIREMENTS		
Public Speaking	COM 1330 or higher. If a public speaking course has already been completed, then any advanced liberal arts course	3
Interdisciplinary Course	Any course in a pproved list, elective	3
<i>Total Common Core & College Option Requirements</i>		6
CURRICULUM REQUIREMENTS**		
PHYS 2607	Introduction to Quantum Mechanics	3
PHYS 2609	Introduction to Quantum Computing	4
PHYS 3100	Classical Mechanics	4
PHYS 3200	Electricity and Magnetism	4
PHYS 3600	Machine Learning for Physics and Astronomy	3
PHYS 4100	Computational Methods	4
PHYS 4150	Computational Methods Lab	2
PHYS 4200	Internship/Real research Experience (WI)	4
MAT 2580	Linear Algebra	3
MAT 2572	Probability and Mathematical Statistics I	4
CST 1101	Problem Solving with Computer Programming	3
CST 1201	Programming Fundamentals	3
CST 1204	Database Systems Fundamentals	3
	Additional program electives	10
<i>Total Curriculum Requirements</i>		54
Total Program Credits		60

Note: ()** To meet New York City College of Technology’s bachelor’s graduation requirement students must complete two additional writing intensive courses (WI), one in the core curriculum (general education) and one in the major.

TOTAL DEGREE CREDITS TO BE TAKEN AT NYCCT	60
TOTAL CREDITS FOR THE BS DEGREE	120

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

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 the effectiveness of this agreement and tracking the number of students who transfer from LAGCC to NYCCT under terms of this articulation agreement and their success:

Each year New York City College of Technology (NYCCT) will provide La Guardia Community College (LAGCC) the following information: a) the number of LAGCC students who enrolled; b) the aggregate GPA of these enrolled students at NYCCT.

3. Sending and Receiving College procedures for publicizing agreement (e.g., college catalogs, transfer advisors, websites, etc.):

- x This articulation agreement will be publicized on the LaGuardia Community College's website, and New York City College of Technology website.
- x Transfer advisors at LAGCC will promote this agreement with eligible students.

Effective Agreement Date: Spring 2021