



ARTICULATION AGREEMENT

Brooklyn STEAM Center	New York City College of Technology
High School Name	College Name
Design & Engineering	Architectural, Mechanical and Civil Engineering & Construction Management Technologies (ARCH, MECH, CMCE)
CTE Program Name	Department Name(s)
15.1303	CUNY
CIP Code	School Type

Rationale

The Brooklyn STEAM Center's Career and Technical Education (CTE) programs provide cutting edge training to unlock pathways to college and career success. Students participate in rigorous academic preparation linked to relevant work experiences in high-demand industries. In collaboration with private sector partners and postsecondary educational institutions the CTE programs are aligned to industry sectors working to ensure students graduate college and are career ready.

Purpose

New York City College of Technology hereby establishes an articulation agreement for students who have completed the indicated course of study at the Brooklyn STEAM Center, New York City Department of Education. The purpose of this agreement is to strategically align respective program interests, including the development of a high-quality education pipeline to lead to successful employment. *New York City College of Technology* reserves the right to annually review this agreement for modifications, additions, or to nullify this agreement.



Eligibility

Scholars that have graduated from the Brooklyn STEAM Center's *Design & Engineering* that have been accepted into *New York City College of Technology* and have matriculated into the *Mechanical Engineering Technology - AAS* OR *Mechanical Engineering Technology - BTECH* OR *Architectural Technology - AAS* OR *Architectural Technology - BTECH* OR *Construction Management Technology - AAS* OR *Construction Engineering Technology - BTECH* degree program will have access to the following benefits.

Student Benefits

1. **Priority Admissions:** Scholars from the Brooklyn STEAM Center are to apply electronically through the University Application Processing Center (UAPC) at www.cuny.edu/admissions/apply.html. Scholars will be admitted into the degree program of their choice if they meet the prerequisites set forth by the college and there is capacity for the applicant.
 - The Brooklyn STEAM Center will provide to the college articulation agreement's designee a list of scholars applying to the college's planned program identified by the outlined deadline to address the guaranteed admittance applicants.
 - *Deadline:* February 1st
2. **Experiences:** The college will participate in the following event opportunities to engage with the community and bridge a connection between the two institutions.
 - *College Tour:* An annual college tour will be co-organized to enable scholars to visit the campus, in order to meet with faculty and view the facilities.
 - *Admissions Webinar:* A special admissions webinar will be held for potential college applicants to discuss general school admissions criteria, program specific requirements, and the manner to utilize the sign articulation agreement properly.
 - *Showcase Attendance:* The college agrees to send at least one member of the faculty to the semi-annual public scholar showcases to meet students, provide feedback on their projects, and participate in the school community.



3. **Prior Learning Credit & Advanced Standing:** Scholars can earn Prior Learning Credit, which are college credits from the institution, if they are accepted into the college’s program and meet the stated prerequisites for the equivalent coursework. Ultimately, college program faculty make the final decision about issuing Prior Learning Credit, offering alternatively Advanced Standing, or no credit.

Brooklyn STEAM Center Requirements	Prior Learning Credit
<ul style="list-style-type: none"> - Portfolio Review - Orthographic drawing assignment collection - Jewelry Box - Maze - Lamp - Students show mastery over orthographic projection both in an analog and digital fashion by constructing multiview orthographic drawings of several common products and their own designs which include at least top, front, right side views as well as constructed sections and auxiliary drawings 	<ul style="list-style-type: none"> - IND1112 <i>Engineering Drawing I</i> [2 Credits]
<ul style="list-style-type: none"> - OSHA10 Certificate - Portfolio Review - Drill block - Students will demonstrate mastery over different machine shop equipment and set up by making a drill block from shop drawing using Operation sheets 	<ul style="list-style-type: none"> - MECH1101 <i>Manufacturing Processes Laboratory</i> [1 Credits]
<ul style="list-style-type: none"> - Haas CNC Mill Operator Certification - Turner's Cube - Students will set up and run 2D and 3D CAM operations including but not limited to profiling, pocketing, 	<ul style="list-style-type: none"> - MECH1201 <i>Computer-Aided Manufacturing Systems</i> [3 Credits]



<p>engraving, horizontal roughing and parallel finishing operations to create a Turner's Cube on the CNC mill</p>	
<ul style="list-style-type: none"> - Rhino Certification - Marble Machine <ul style="list-style-type: none"> - Students will design, assemble and animate their own machine made to move marbles from one location to another. - Transmission <ul style="list-style-type: none"> - Students will design assemble and animate a transmission designed to increase the speed of a crank input by 100 	<ul style="list-style-type: none"> - MECH1222 <i>Computer-Aided Engineering Graphics</i> [2 Credits]
<ul style="list-style-type: none"> - Rhino Certification - Portfolio Review <ul style="list-style-type: none"> - 5 perspective/elevation sketches from nyc buildings - 5 Student poems from Pavillion design project - Architectural design sketches from pavilion design project - High quality final presentation boards from Pavillion design project 	<ul style="list-style-type: none"> - ARCH1101 <i>Introduction to Architecture</i> [2 Credits]
<ul style="list-style-type: none"> - Rhino Certification - Portfolio Review <ul style="list-style-type: none"> - Tiny home redesign project - Students will show analog drafted plans, sections and elevations from survey of existing shipping container to be redesigned - Students will show final drawing boards of digitally drafted drawings for tiny home redesign with new structure and spaces. Tiny home redesign project 	<ul style="list-style-type: none"> - ARCH1231 <i>Building Technology I</i> [3 Credits]
<ul style="list-style-type: none"> - Rhino Certification 	<ul style="list-style-type: none"> - CMCE1110 <i>Construction Drawings I</i>



<ul style="list-style-type: none"> - Portfolio Review <ul style="list-style-type: none"> - Tiny home redesign project - Students will show analog drafted plans, sections and elevations from survey of existing shipping container to be redesigned - Students will show final drawing boards of digitally drafted drawings for tiny home redesign with new structure and spaces. Tiny home redesign project 	<p>[2 Credits]</p>
<ul style="list-style-type: none"> - Rhino Certification - Portfolio Review <ul style="list-style-type: none"> - Tiny home redesign project - Students will show analog hand made large scale section models showing the construction techniques used for the creation of their Tiny home Redesign. 	<ul style="list-style-type: none"> - CMCE1114 <i>Materials and Methods of Construction I</i> [3 Credits]
<ul style="list-style-type: none"> - Portfolio Review - Product Design Project <ul style="list-style-type: none"> - Pin-Hole Camera, Zoetrope - Chess Set, Ornament, Passive Speaker, Mask - Kitchen utensil set design sketches, renders and prototype model 	<ul style="list-style-type: none"> - MECH3610 - <i>Product Design I</i> [3 Credits]



The *New York City College of Technology ARCH, CMCE and MECH* Departments agree to collaborate with the Brooklyn STEAM Center when appropriate to:

- Review on an annual basis the curriculum of the CTE program utilizing the provided [‘Postsecondary Partner Review Tool’](#) or alternatively proposed artifact.
- Provide guidance and information to prospective students on specific college and career requirements and expectations.
- Nominate a member of the department’s faculty to participate in the semi-annual advisory council meetings for the CTE program, as a means of establishing regular connections to the school and to provide feedback on curriculum and credentialing.
- Nominate a member of the department’s faculty to participate in the once every five years New York State Education Department program approval external review.
- Consistently apply the benefits offered to students that qualify based on the prerequisites illustrated in this document in an organized and clearly conveyed system.

The Brooklyn STEAM Center of the NYC Department of Education agrees to collaborate with the *New York City College of Technology ARCH, CMCE and MECH* Departments when appropriate to:

- Communicate clearly and routinely with the college designee in alignment with the details of this articulation agreement.
- Provide college guidance throughout the CTE Program to allow students to make informed choices in areas related to industry that translates into the college’s programs.
- Host a platform, in the form of semi-annual advisory council meetings, to have industry and postsecondary partners review and influence curriculum design choices.
- Invite the college partner to join extracurricular and showcase events to directly engage with scholars within the CTE Program.



Institution Contact

Damiano Mastrandrea

Brooklyn STEAM Center Primary Contact Name

DMastrandrea@BrooklynSTEAMcenter.org

Brooklyn STEAM Center Primary Contact Email

Gerarda Shields

College Primary Contact Name

GShields@citytech.cuny.edu

College Primary Contact Email

Upon approval of this agreement, all cooperating agencies can publicize in brochures and other recruitment/admissions materials of the partnership. *New York City College of Technology* reserves the right to make final determination on advanced placement of students; effort will be made to accommodate all qualified students on a space availability basis.

This agreement shall be in effect upon signing by both parties and revised by mutual agreement of both parties. Curriculum, equipment, or facilities may be reviewed at any time per request by either party.

Duration

The term of this agreement shall commence as of *April 30, 2022* and shall remain in effect until *June 30, 2027*. Significant changes in curricula will be taken into account upon yearly review.



Agreement accepted for the *New York City College of Technology* by:

Pamela Brown

08/03/2022

Pamela Brown

Date

~~XXXX~~ Provost and VP for Academic Affairs

Masa Nakamura

6/7/2022

Masa Nakamura

Date

Chairperson, MECH

Melanie Villatoro

6/7/22

Melanie Villatoro

Date

Chairperson, CMCE

Sanjive Vaidya

06/18/2022

Sanjive Vaidya

Date

Chairperson, ARCH

Agreement accepted for *Brooklyn STEAM Center* by:

Kayon Pryce

April 1st, 2022

Kayon Pryce

Date

Brooklyn STEAM Center Principal