

Community College Internships (CCI)

Summer 2022 - Application for: Gabriel James Abruzzo

APPLICANT PROFILE

General Applicant Information

First Name: Gabriel

Middle Name: James

Last Name: Abruzzo

Previous Last Name(s): Abruzzo

Primary Email Address: gabriel.abruzzo@gmail.com

Alternate Email Address 1: abrug21@mail.sunysuffolk.edu

Alternate Email Address 2:

ORCID: [0000-0003-3698-6062](https://orcid.org/0000-0003-3698-6062)

Current Address

Primary Phone Number: 631-215-9976

Alternate Phone Number:

Citizenship/Languages/Eligibility Information

I will be 18 years of age or older by the time the internship begins: Yes

Are you a U.S. Citizen? Yes

Community College Internships (CCI)

Summer 2022 - Application for: Gabriel James Abruzzo

EDUCATIONAL BACKGROUND

Academic Information

Are you currently attending a community college?

Yes

Current academic status: Second-Year Community College Student

If you are selected as a participant in this DOE program, will you receive academic credit from your university/college for participating?

No

Undergraduate Institution Information

College/University Country: United States and U.S. Territories

College/University State/Province/Territory: New York

College/University Name: Suffolk County Community College Ammerman Campus

College/University Address: 533 College Rd, Selden

College/University City: Selden

College/University Zip Code: 11784-2899

Expected/Declared Major: Engineering - Pre-Engineering

Expected Degree From This College/University: 2 Year Associate

Expected/Completed Graduation Date: December / 2023

Transcript: Official transcript (Gabriel Abruzzo).pdf

Does this institution provide grades? Yes

GPA Scale: 4.0

Total Attempted Credits: 32.00

Total Earned Credits: 32.00

Total Quality Points: 118.00

GPA: 3.69

Science, Technology, Engineering and Mathematics (STEM) Courses

Course Title: Calculus with Analytic Geometry II

Course Number: 142

Enrollment Status: Currently Enrolled

High School Graduation or GED

Date of High School Graduation or GED: June / 2020

Country: United States

City: Islip Terrace

State/Province/Territory: NY



Community College Internships (CCI)

Summer 2022 - Application for: Gabriel James Abruzzo

WORK EXPERIENCE & SKILLS

Professional Associations

Are you a member of any
professional organizations?

No

Community College Internships (CCI)

Summer 2022 - Application for: Gabriel James Abruzzo

PROGRAM INFORMATION

Eligibility

Have you previously participated in 2 CCI appointments? No

Previous DOE Internship/Fellowship or Lab Activity Experience

Have you ever had an internship/fellowship with the Department of Energy or any of its National Laboratories (such as SULI, CCI, VFP) or attended an activity at one of the National Laboratories (such as a Mini-Semester or Sustainable Research Pathways)? No

Availability

What is the earliest date you can begin your internship? 5/1/2022

When do you need to complete your internship? 9/30/2022

First Choice Host DOE Laboratory

DOE Laboratory: Brookhaven National Laboratory (BNL)

First Choice Technical Project Area: Engineering Technology - Mechanical

Second Choice Technical Project Area: Engineering Technology - Electrical

Third Choice Technical Project Area: Engineering Technology - Computer

Second Choice Host DOE Laboratory

DOE Laboratory: Thomas Jefferson National Accelerator Facility (TJNAF)

First Choice Technical Project Area: Engineering Technology - Mechanical

Second Choice Technical Project Area: Engineering Technology - Electrical

Third Choice Technical Project Area: Accelerator Engineering and Technology

Relatives Employed at DOE Laboratories

Are you a relative of an employee at the proposed host DOE laboratories? No

Community College Internships (CCI)

Summer 2022 - Application for: Gabriel James Abruzzo

ESSAYS

Technical/Research Experience:	I have no prior experience on a technological, research, or project teams; However, this would be a great start for me!
Technical/Research Interests:	The reason I chose Brookhaven National Laboratory and Thomas Jefferson National Accelerator Facility as the host laboratories I'd like to attend are due to multiple factors. Primarily, I chose these due to their location. I'd much prefer Brookhaven National Laboratory due its larger selection of engineering fields, and it being within driving distance to my house making for a better commute. With a larger selection of engineering fields, I feel as if I can explore more options in the future to research as well. My main interests to research are mechanical and electrical subjects. I also chose "Engineering technology - computer" as my third option because I've become more interests in computers and program as of late. I then chose the TJNAF host laboratory as a back up since it has two of the three fields that interest me. Overall, I am quite excited and ready to attain any knowledge or experience in these engineering fields as soon as possible.
Personal Experience:	I have quite a large quality of positive attributes to contribute to the CCI Program. First and foremost, I am very passionate about engineering. Throughout my academic career at SUNY Suffolk Community College, I've sacrificed a lot to maintain my high grades to help me achieve my goal of becoming an engineer. Due to my passion for this field, I've been able to learn and doing things I've never once prior thought I was capable of learning. For example, I've never been exposed to programming prior to this semester; However, after just finishing the semester, I've managed to maintain and earn an "A" letter grade in my engineering computations lecture where we were taught to utilize C++ to solve mathematical problems. Also, in the prior spring semester, I was able to maintain an "A" letter grade in my AutoCAD lecture, while having little experience in the subject. I thoroughly enjoyed these subjects, and hope to utilize them later on in my engineering career. Once aspect of my academic career that most may look at as negative is that I needed to retake my calc I class from last semester; However, I see this as a positive. As my Engineering Computations Professor (Peter Maritato) once said "Engineering is the only career field where they pay you to fail!". Engineering is all about failing and learning from your mistakes to create a better solution to your problem. Despite having to drop out of my Calculus I lecture, I was willing to retake it and learn from my past mistakes. Now I passed the class with a "B" letter grade and I'm looking forward to taking Calculus II next spring semester. Not only do I have passion and determination for this career field, but I'm also willing to work with others, I'm personable, and I'm very addaptive to my situations and surroundings.
Professional Goals:	My long-term academic and professional goals can be summed up as such. During my time attending SUNY Suffolk Community College, I plan on maintaining the highest Grade point average as possible so that I can maintain my joint admissions to Stonybrook University by the time I graduate Suffolk. I also plan on gaining as much work experience as I can prior to graduating Suffolk and Stonybrook. During my time at Stonybrook University, I plan to attend their Mechatronic Engineering program; However, I'd like to explore the other engineering fields before making that commitment. Experience in the engineering field is crucial for an engineering student like me since companies and college alike both look for it more then academic grades. Participating in the CCI program would expand tremendously on my real world skills in this field and would help develop connections to help with my future engineering endeavors not matter what field of engineering I end up choosing in the future. The CCI program would also help me be able to focus more on my studies at college instead of wasting my time working a part time job on the side that distracts me from my academic studies.

RECOMMENDATIONS

Recommendation 1:	First Name: Peter Last Name: Maritato Email: maritap@sunysuffolk.edu Status: Received 1/7/2022
Recommendation 2:	First Name: Vincent Last Name: Verdisco Email: verdisv@sunysuffolk.edu Status: Received 1/8/2022
Recommendation 3:	First Name: Zhong Last Name: Wang Email: wangz@sunysuffolk.edu Status: Received 1/7/2022

Record of: Gabriel James Abruzzo

Social Security Number: [REDACTED]

Print Date: November 19, 2021

Date of Birth: [REDACTED]

High School: EAST ISLIP HIGH SCHOOL 25-JUN-2020

Current Program
Associate in Science
Major: Engineering Science

SUBJ	NO.	COURSE TITLE	CRED GRD	PTS R
------	-----	--------------	----------	-------

INSTITUTION CREDIT:

Fall 2019	MFT 210	Computer Graphics Application 1 (Introduction to CAD)	3.0 A	12.0
Ehrs:	3.00	GPA-Hrs: 3.00 QPts:	12.0	GPA: 4.0

Fall 2020	CHE 122	Foundations of College Chemistry	4.0 B	12.0
COL 101		College Seminar	1.0 C	2.0
ENG 101		Standard Freshman Composition	3.0 A	12.0
HIS 104		Modern American History	3.0 A	12.0
MAT 126		Precalculus Mathematics	4.0 B	12.0
PED 130		Lifetime Fitness	1.0 A	4.0
Ehrs:	16.00	GPA-Hrs: 16.00 QPts:	54.0	GPA: 3.4

Spring 2021	CHE 133	College Chemistry I	4.0 A	16.0
DRF 112		Technical Drawing/Basic CAD	3.0 A	12.0
ENG 102		Introduction to Literature	3.0 A	12.0
HIS 101		Western Civilization I	3.0 A	12.0
MAT 141		Calculus with Analytic Geometry I	4.0 W	0.0
Ehrs:	13.00	GPA-Hrs: 13.00 QPts:	52.0	GPA: 4.0

Dean's List

Fall 2021	CHE 134	College Chemistry II	4.00	IN PROGRESS
ENS 117		Engineering Computations	3.00	IN PROGRESS
MAT 141		Calculus with Analytic Geometry I	4.00	IN PROGRESS

***** CONTINUED ON NEXT COLUMN *****

GABRIEL ABRUZZO
39 WOODCLIFF RD
ISLIP TERRACE, NY 11752-1924**Suffolk**
COUNTY COMMUNITY COLLEGEOffice of the Registrar
533 College Road
Selden, New York 11784-2899
<http://www.sunysuffolk.edu>

SUBJ	NO.	COURSE TITLE	CRED GRD	PTS R
IN PROGRESS WORK continued:				
In Progress Credits			11.00	
Spring 2022				
IN PROGRESS WORK				
ENS	112	Introduction to Engineering Design	2.00	IN PROGRESS
MAT	142	Calculus with Analytic Geometry II	4.00	IN PROGRESS
In Progress Credits			6.00	
***** TRANSCRIPT TOTALS *****				
TOTAL INSTITUTION		Earned Hrs	GPA Hrs	Points GPA
		32.00	32.00	118.0 3.7
TOTAL TRANSFER		0.00	0.00	0.0 0.0
OVERALL		32.00	32.00	118.0 3.7
***** END OF TRANSCRIPT *****				

ISSUED TO STUDENT

This officially sealed and signed transcript is printed on red SCRIP-SAFE® security paper with the name of the college printed in white type across the face of the document. A raised seal is not required. The institution name and the word COPY appear as a latent image. A BLACK ON WHITE OR A COLOR COPY SHOULD NOT BE ACCEPTED.

*Anna Flack*Anna Flack
College Associate Dean/Registrar

In accordance with the Family Educational Rights and Privacy Act of 1974, as amended, this information is released on the condition that you will not permit any other party access to this information without the written consent of the student. Alteration of this transcript may be a criminal offense.

EXPLANATORY LEGEND AND AUTHENTICITY STATEMENT APPEAR ON REVERSE SIDE

TO VERIFY: TRANSLUCENT GLOBES MUST BE VISIBLE FROM BOTH SIDES OF TRANSCRIPT WHEN HELD TOWARD A LIGHT SOURCE

TO VERIFY: TRANSLUCENT GLOBES MUST BE VISIBLE FROM BOTH SIDES OF TRANSCRIPT WHEN HELD TOWARD A LIGHT SOURCE

CCI PROGRAM APPLICATION RECOMMENDATION FOR GABRIEL JAMES ABRUZZO

Recommender Contact Information

- **First Name:** Pete
- **Last Name:** Maritato
- **Title:** Academic Chair
- **Department:** Engineering Science
- **Institution/Organization:** Suffolk COmmunity College
- **Telephone:** 631-451-4277
- **Email:** maritap@sunysuffolk.edu

Applicant Information

Association

Describe your relationship to the applicant, including how long you've known the applicant, where, and in what capacity.

Gabriel was a student this past semester in the Engineering Computations course I taught. He also is in the engineering science program that I oversee as the chairmen of. I have known Gabriel for approximately six months as a student.

Applicant Comments

Please provide substantive comments about the applicant's education, training, aptitude, or promise relevant to the CCI program. Include any relevant additional detail or perspective regarding the applicant's technical or research experience or equivalent experience on complex projects, including the level of independence or other factors that would contribute to the applicant's ability to make an excellent contribution to the CCI program.

The approach I have in my course that Gabriel attended is to have the students complete several projects that require them to research additional information to complete the project as well as verify the validity of their research results. Gabriel, I can state without question is a highly motivated and dedicated student with excellent research abilities. He was always early to class and on-time with all his projects. Gabriel always put in a hundred percent effort into all his required assignments and projects with outstanding results. He is that type of students that makes you proud you are a professor. I see great aptitude and promise in Gabriel, he will be an outstanding engineer or scientist, for his passion and dedication are strong in those areas. At the end of my course, I assign a project that has many levels of ability factored in. Depending on the level the students can complete on the project will determine their grade. It is designed such that it becomes progressively more challenging and complex as you add in additional parts of the project. Students must complete to the half-way point to achieve a middle grade. There is the possibility to go well beyond and achieve additional points but it will require a significant amount of additional research and dedication to achieve the higher point scale. Gabriel completed the project to acquire the maximum amount of points but went well beyond what was required. He is that type of individual that wants to see how far he can take his knowledge and his skills. I highly recommend him for the CCI program, he will be a true asset.

Applicant Rating

In comparison to other undergraduate students, please rate the applicant relative to his/her peers on the following qualifications:

	Do Not Know	Below Average	Average	Above Average	Superior
Analytical and Mathematical				X	
Experimental Research				X	
Overall Academic				X	
Initiative and Self Reliance				X	
Motivation toward Scientific Career				X	
Originality of Thought			X		
Emotional Maturity			X		
Ability to Work with Others				X	
Potential for Leadership				X	
Oral Communication Skills			X		
Written Communication Skills			X		

CCI PROGRAM APPLICATION RECOMMENDATION FOR GABRIEL JAMES ABRUZZO

Recommender Contact Information

- **First Name:** Zhong
- **Last Name:** Wang
- **Title:** Professor
- **Department:** Chemistry
- **Institution/Organization:** Suffolk County Community College
- **Telephone:** 631-851-6457
- **Email:** wangz@sunysuffolk.edu

Applicant Information

Association

Describe your relationship to the applicant, including how long you've known the applicant, where, and in what capacity.

I am a full time chemistry professor at Suffolk County Community College and Gabriel James Abruzzo has taken the second semester of a one-year chemistry course, College Chemistry, with me during the fall semester of 2021.

Applicant Comments

Please provide substantive comments about the applicant's education, training, aptitude, or promise relevant to the CCI program. Include any relevant additional detail or perspective regarding the applicant's technical or research experience or equivalent experience on complex projects, including the level of independence or other factors that would contribute to the applicant's ability to make an excellent contribution to the CCI program.

Gabriel James Abruzzo is one of my most dedicated students. He always came prepared for the lecture and lab. In the class he often asked good questions, participated in the discussion, and sharing his thoughts. He never needs reminders for any assignments because he always completed them seriously and carefully way before the due dates. I must make note of his great hands-on practical ability and capacity. He and his lab partner worked very well together. Sometimes, he didn't get satisfied experimental results at the beginning. However, he didn't give up or simply copy others' results. He was determined and his persistence paid off. His experiments results and lab reports are always exceptional.

Applicant Rating

In comparison to other undergraduate students, please rate the applicant relative to his/her peers on the following qualifications:

	Do Not Know	Below Average	Average	Above Average	Superior
Analytical and Mathematical					X
Experimental Research					X
Overall Academic				X	
Initiative and Self Reliance					X
Motivation toward Scientific Career					X
Originality of Thought				X	
Emotional Maturity					X
Ability to Work with Others					X
Potential for Leadership				X	
Oral Communication Skills					X
Written Communication Skills					X