



SUMMER 2019 Program

Introduction to Engineering and Computer Technologies

ENGR1000 PROGRAM ELIGIBILITY REQUIREMENTS

Eligible students will demonstrate: Strong record of attendance; no schedule conflicts during the summer 2019 semester and other requisites noted below. For admissions to the College Now ENGR1000 course students must be in **10th or 11th grade** (rising juniors or seniors) **in good academic standing at their home schools (GPA 80+)** and have a good record of attendance. Furthermore, students must have demonstrated proficiency in the appropriate area(s) via SAT or Regents scores.

Students must meet BOTH 1 (Math requirement) and 2 (Reading/Writing Requirement) below, and register for the ACCUPLACER Math placement exam prior to acceptance.

1. Math Requirement:

Students must have

- A. Scored 70+ in Algebra I (Common Core) **OR** scored 70+ in Geometry (Common Core) **OR** scored 65+ on Algebra II (Common Core)
OR
- B. Scored 530+ on SAT/Math
OR
- C. Scored 21+ on ACT Math

*All Math applicants are required to take the ACCUPLACER Math placement exam to determine level of proficiency in college Math.

2. Reading/Writing Requirement:

Students must have

- A. Scored 75+ on ELA Regents
OR
- B. SAT I Verbal score of 480+ **or** SAT Critical Reading score of 480+ **or** SAT Evidence-Based Reading and Writing (EBRW) section score of 480+
OR
- C. Scored 21+ on ACT English



SUMMER 2019 Program

Introduction to Engineering and Computer Technologies

July 1 – August 6, 2019

Orientation: July 1, 2019 (9:30AM -2:00PM)

Oral presentation: August 6 (10:30AM-1:00PM)

Week 1: Computer Systems Technology/CIS

Week 2: Computer Engineering Technology

Week 3: Mechanical Engineering Technology/Industrial Design

Week 4: Electrical Engineering Technology/Telecommunications

Afternoon activity (Room TBA): Program Coordinator Tom Deignan

July 9-12 (10:20am-1:20pm) Prof. Bader Oudjehane & CLT (Lam Doung)

July 16-19 (10:20am-1:20pm) Prof. Ohbong Kwon & CLT (Karen LeonDuarte)

July 23-26 (10:20am-1:20pm) Prof. Masato Nakamura & CLT (Jahanzaib Adil)

July 30-August 2 (10:20am-1:20pm) Prof Hamid Marandi & CLT (Chi Jau Yuan)

TIME	Monday	Tuesday		
<u>Orientation Week</u>				
	<u>July 1</u>	<u>July 2</u>		
9:30am - 11:30am	Room: N119 Orientation & Learning Center Matthew Brittain & Program Coordinator (Tom Deignan)	Room: TBA Pre-Test Overview of each discipline Prof. Hamid Marandi & Prof. Masato Nakamura		
12:00pm - 2:00pm	Library (A438), Campus Learning Center (AG18), Student IDs (N109) & Metro cards	Prof. Ohbong Kwon & Prof. Bader Oudjehane Sum'18 Student Pres.		
TIME	Monday	Tuesday	Wednesday	Thursday
<u>Week 1: Computer Systems Technology/Computer Information Systems</u>				
	<u>July 8</u>	<u>July 9</u>	<u>July 10</u>	<u>July 11</u>
10:30am - 1:20pm	Room: N928 Instructor: Prof. Bader Oudjehane Lecture: Computer Systems Architecture Lab: Build your Computer system Topics: Computer hardware, software. Operating Systems. Binary System.	Room: N419 Instructor: Prof. Bader Oudjehane Lecture: Did you say program? Lab: ALICE : 3D programming environment Creating an Alice Project Topics: Programming Languages Fundamentals	Room: N419 Instructor: Prof. Bader Oudjehane Lecture: Internet you said! Who's running the ship?" Lab: Local Area Networks Intro to Microsoft networking (Win Server) Topics: The Internet, Networking, databases and security	Trip to: Cisco Time: 9:00 -3:30 Instructor: Prof. Bader Oudjehane Journal Writing: How the field trip illustrated how Computer Systems Technology/CIS is used.
1:20pm - 2:00pm	LUNCH – Room M404	LUNCH – Room M404	LUNCH – Room M404	
2:00pm - 3:30pm	<ul style="list-style-type: none"> 2:00-3:00pm Guest speaker (TBD) 3:00-3:30pm – Reading & Writing Exercises – Coordinator 	<ul style="list-style-type: none"> 2:00pm-2:30 Discussion & Grouping for final project– Coordinator 2:30pm-3:30pm – Brainstorming for final project 	<ul style="list-style-type: none"> 2:00-3:00pm Team Building & College-Readiness Exercises 3:00-3:30pm – Reading & Writing Exercises – Coordinator 	

TIME	Monday	Tuesday	Wednesday	Thursday	
<u>Week 2: Computer Engineering Technology</u>					
10:30am - 1:20pm	<u>July 15</u> Room: V608 Instructor: Prof. Ohbong Kwon Lecture: Introduce students to the binary numbering systems Lab: Build the digital logic circuits using the Quartus II software	<u>July 16</u> Room: V608 Instructor: Prof. Ohbong Kwon Lecture: 7-segment display for the digital design Lab: Display BCD numbers on the 7-segment on Altera DE2 board.	<u>July 17</u> Room: V610 Instructor: Prof. Ohbong Kwon Lecture: Introduce students to the basics capabilities of MATLAB Lab: Linear Algebra using MATLAB	<u>July 18</u> Trip to: CUNY High Performance Computing Center Time: 9:00 -3:30 Instructor: Prof. Ohbong Kwon Journal Writing: How the field trip illustrated how Computer Engineering is used.	
	1:20pm - 2:00pm	LUNCH – Room M404	LUNCH – Room M404		LUNCH – Room M404
	2:00pm - 3:30pm	<ul style="list-style-type: none"> 2:00-3:00pm Guest speaker (TBD) 3:00-3:30pm – Reading & Writing Exercises – Coordinator 	<ul style="list-style-type: none"> 2:00-3:00pm Research skills – Library (Anne Leonard) & Avoiding Accidental Plagiarism 3:00-3:30pm group meeting for final project at Library – Coordinator 		<ul style="list-style-type: none"> 2:00pm-2:30pm Presentation group meetings – Coordinator 2:30-3:30pm – Public Speaking – Prof. Applewhite
<u>Week 3: Mechanical Engineering Technology/Industrial Design</u>					
10:30am - 1:20pm	<u>July 22</u> Room: V509 Instructor: Prof. Masato Nakamura Lecture: Renewable Energy Lab: 2D CAD drawing	<u>July 23</u> Room: V509 Instructor: Prof. Masato Nakamura Lecture: Flying cars Lab: 3D CAD modeling	<u>July 24</u> Room: V509 Instructor: Prof. Masato Nakamura Lecture: Travel to Mars Lab: 3D animation and Simulation	<u>July 25</u> Trip to: Sunset Park Material Recovery Facility of SIMS Municipal Recycling Time: 9:00 -3:30 Instructor: Prof. Masato Nakamura Journal Writing: How the field trip illustrated how Mechanical Engineering is used.	
	1:20pm - 2:00pm	LUNCH – Room M404	LUNCH – Room M404		LUNCH – Room M404
	2:00pm - 3:30pm	<ul style="list-style-type: none"> 2:00-3:00pm Guest speaker (TBD) 3:00-3:30pm – Reading & Writing Exercises – Coordinator 	<ul style="list-style-type: none"> 2:00-3:00pm How to create PowerPoint & Google Slides – Coordinator 3:00-3:30pm group meeting for final project- Coordinator 		<ul style="list-style-type: none"> 2:00-3:00pm Rehearsals for Group Projects 3:00-3:30pm Peer Feedback on the rehearsal – Coordinator 1st draft group project report due

TIME	Monday	Tuesday	Wednesday	Thursday
<u>Week 4: Electrical Engineering Technology/Telecommunication</u>				
10:30am - 1:20pm	<u>July 29</u> Room: V716 Instructor: Prof. Hamid Marandi Lecture:: Introduction to AC & DC circuits Lab: Feedback Board, DC voltmeter, and Ammeter	<u>July 30</u> Room: V704 Instructor: Prof. Hamid Marandi Lecture: Introduction to Solid-State Electronic Fundamentals Lab: general diodes for half-wave and full-wave rectifiers in the power supplies.	<u>July 31</u> Room: V706 Instructor: Prof. Hamid Marandi Lecture: Introduction to Digital Electronic Fundamentals and Switching Theory Lab: Digiac, oscilloscope, and signal generator	<u>August 1</u> Trip to: MTA Time: 9:00 -3:30 Instructor: Prof. Hamid Marandi Journal Writing: How the field trip illustrated how Electrical Engineering Technology is used.
	1:20pm - 2:00pm	LUNCH – Room M404	LUNCH – Room M404	
2:00pm - 3:30pm	<ul style="list-style-type: none"> 2:00-3:00pm Guest Speaker (TBD) 3:00-3:30pm – Reading & Writing Exercises – Coordinator 	<ul style="list-style-type: none"> 2:00-2:45pm- group meeting for final project - Coordinator 2:45-3:30pm Preparation for Oral Presentations – Coordinator 	<ul style="list-style-type: none"> 2:00-3:00pm Presentations Rehearsal – Coordinator 3:00-3:30pm Peer Feedback on the rehearsal – Coordinator 	
<u>Week 5: Final Presentations</u>				
10:30am - 1:00pm	<u>August 5</u> Final Presentation Prep – Coordinator, room AG-30 Self-Assessment	<u>August 6</u> Final Presentation – Coordinator & faculty, room AG-30 Post-Assessment		

*Trip schedule subject to change, pending availability.



The City University of New York

College Now Registration Form

Summer 2019 New York City College of Technology



Please **PRINT** clearly and legibly

Please use all CAPITAL letters (Upper case - Mayúscula)

High School Name

HS ETS Code

OSIS #

Social Security

N/A

Note: The College Now program requires all participating students to register using their Social Security Number (SSN). For students who are not U.S. citizens and who are interested in participating, CUNY will generate a number that will function in the same way as the SSN.

Last Name

First Name

Middle initial

Street Address

Apt. #

City

State

ZIP

Gender

Home Phone

Cell Phone

Male

Female

E-MAIL Address:

Date of Birth (mm/dd/yy)

Race/Ethnicity

1. Are you Hispanic/Latino? Yes No
2. Select one or more races: Black or African American Asian White
 Native Hawaiian or Other Pacific Islander American Indian or Alaska Native

Current Grade

10th 11th 12th

What is your parent or guardian's highest level of education? (select one):

- Post Graduate or Professional College Degree Some College Education
 High School Graduation Some High School 8th Grade or Less I don't know

Course Selection

College Now at City Tech only offers one program for the summer, ENGR1000: Introduction to Engineering & Computer Technologies. Therefore, you only have the option to apply for ENGR1000.

Preferred Course Name and Section #:

1. ENGR1000 _____

Student Signature: _____

Date: _____

TO BE COMPLETED BY COLLEGE NOW STAFF

<input type="checkbox"/> Returning Student	<input type="checkbox"/> New Student	CUNY Empl	<input type="text"/>
Registered College Course (Ex: ENG1101.CN25)	Course # on CUNYfirst	Number of Credits	<input type="text"/>
<input type="text"/>	<input type="text"/>	If course is a non-credit course, enter 0.0 for 'number of credits'	<input type="text"/>

If at any point you have questions, please do not hesitate to contact us.
 Contact Name: Matthew Brittain, Program Director for College Now

Phone: 718) 260-5206
 Fax: 718) 260-5503



Parent Permission and Consent Form

Dear Families:

We welcome your interest in College Now @ City Tech! For your child to be accepted this semester, you must read, **complete and return this form and attend our mandatory student orientation.**

Your son and/or daughter expressed interest in joining the *College Now Program at New York City College of Technology (City Tech)* Program this coming semester. The program, part of a City University/Board of Education collaborative to prepare students for college, is a wonderful opportunity available to students in NYC public high schools. The College Now brochure (online at <http://citytechprecollege.org/>) explains the program in more detail and if you ever have a question, please call us directly at 718-260-5206.

Before we consider your child’s application, your child will need your consent on a few items. After you carefully read and complete (sign) the form, please have your child return it along with the registration form, transcript and course selection form before the deadline (see above) to our office directly.

PERMISSION TO TRAVEL AND PARTICIPATE, YET HOLD HARMLESS

I, the parent/guardian of the student named below, hereby give my permission for my son/daughter to participate in College Now program initiatives, including the course described above, trips, and enrichment activities. I understand that my child is expected to travel unaccompanied to and from City Tech as well as to and from various scheduled field trips (may vary by class), and other enrichment activities.

I *agree not* to hold my son/daughter’s high school or any of its employees or Board of Education or any of its employees or the City Tech or any of its employees or the City University of New York or any of its employees responsible for any expenses or injuries that my child may incur while engaged in this activity. I understand that my child is responsible for his/her behavior at all times.

I agree that in the event of an injury City Tech or New York City Board of education personnel in charge of this activity may act on my behalf in obtaining medical treatment for my child. I indicated below any permanent or temporary condition that should be known about my child:

(Write none, if applicable)_____.

PHOTO RELEASE

We are sending you this parental consent form to both inform you and request permission for your child’s photo/image and personally identifiable information to be published on the City Tech or New York City Board of Education or College Now Program at City Tech’s public internet. As you are aware, there are potential dangers associated with the posting of personally identifiable information on a web site since global access to the internet does not allow us to control who may access such information. These dangers have always existed; however, we as a program want to celebrate your child and his/her work. The law requires that we ask for your permission to use information about your child. Pursuant to law, we will not release any personally identifiable information without prior written consent from you as a parent or guardian. Personally identifiable information includes student names, photo or image, residential addresses, e-mail address, phone numbers and locations and time of class trips. If you, as the parent or

guardian, wish to rescind this agreement, you may do so at any time in writing by sending a letter to College Now Program at City Tech Office of Collaborative Programs, and such a letter will take effect upon receipt.

Please choose **only one and write your INITIALS in the box:**

I/we **GRANT** permission for a photo/image that includes this student without any other personal identifiers to be published on the CUNY, College Now Program at City Tech Office of Collaborative Programs and/or New York City Board of Education public internet or other media.

I/we **GRANT** permission for the student's photo/image and name to be published on the City University of New York, College Now Program at City Tech Office of Collaborative Program and/or New York City Board of Education public internet, or other media.

I/we **GRANT** permission for the student's photo/image and all other personal identifiers listed above to be published by or on behalf of the College Now Program at City Tech Office of Collaborative Programs and/or New York City Board of Education public internet, or other media.

I/we **DO NOT GRANT** permission for photo/image that includes this student to be published by, on behalf or on the College Now Program at City Tech Office of Collaborative Programs and/or New York City Board of Education public internet, or other media.

PARENT/GUARDIAN PLEDGE TO SUPPORT

I, the parent/guardian of _____ pledge to:

- Be an active participant as much as my schedule will permit (attend all orientation sessions and mandatory meetings; volunteer at least once per year).
- Periodically contact my child's high school guidance counselor AND the College Now @ City Tech representative for academic performance and attendance update.
- Encourage and help my child maintain a positive attitude about education.
- Seek out assistance in supporting my child, as needed.

Student's High School Name: _____

Student's Name: (please print) _____ Current Grade level _____

High School: _____

Parent/Guardian's Name (Please Print) _____

Signature of Parent/ Guardian: _____ Date _____

Emergency Contact Number: _____

E-mail: _____

Relation to Student: _____



NEW YORK CITY COLLEGE OF TECHNOLOGY
The City University of New York
 300 Jay Street, Brooklyn, NY 11201

FOR APPROVAL:
 Marcela Armoza, VP
 Enrollment & Student Affairs
 (or Designee)
 Room Namm 300
**AT LEAST 2 WEEKS PRIOR
 TO TRAVEL**

OFF-CAMPUS TRAVEL WAIVER AND RELEASE AGREEMENT

To Be Completed by the Student (please print legibly)

New York City College of Technology (“College”) of The City University of New York (“University”) believes that participation in organized, off-campus activities by its students can be an important part of the learning experience. Off-campus activities may, however, involve certain risks, both to the participating students and to the College/University. In order to participate, each student must read carefully, complete and sign this Travel Waiver and Release Agreement, and submit it to the Trip Sponsor.

Description of Activity: _____

Destination: _____

Date(s) of Activity: _____

Trip Sponsor & Cell/Phone: _____

Chaperone & Cell/Phone (if applicable): _____

Name (Print Legibly): _____

CUNY ID (College ID Card): _____

Cell/Phone: _____

EMERGENCY CONTACT(S)

Name: _____

Relationship: _____

Cell/Phone: _____

I wish to participate in the Activity and in consideration for being permitted to participate in the Activity, I hereby represent and agree as follows:

1. I understand that participation in the Activity involves risks and hazards not found in study at the College, including risks involved in traveling, and I have sought and obtained information and advice that I feel are necessary and appropriate. I am fully aware of and voluntarily assume the risks and hazards connected with participating, and I hereby voluntarily elect to participate in the Activity. I acknowledge, accept, and assume all such risks, whether or not foreseeable and whether or not

caused by the negligent or intentional acts or omissions of others, and elect voluntarily to participate in the Activity.

2. Knowing these risks and hazards, and in consideration of being permitted to participate in the Activity, I agree, on behalf of my family, heirs and personal representative(s), to assume all the risks and responsibilities surrounding my participation in the Activity. I understand that, although the University has made every reasonable effort to assure my safety while participating in the Activity, there are unavoidable risks, and I hereby release and promise not to sue the City of New York, the State of New York, the College, the University, and the officers, employees or agents of any and all of them ("Released Parties") for any damages or injury (including death) caused by, deriving from, or associated with my participation in the Activity, except for such damages or injury as may be caused by the gross negligence or willful misconduct of the officers, employees or agents of any of them. It is my express intent that this Release bind my heirs, assigns and personal representatives.
3. I represent that my agreement to the provisions herein is wholly voluntary, and further understand that, prior to signing this Release, I have the right to consult with the adviser, counselor or attorney of my choice.
4. I will be informed of and will conform my conduct to the standards surrounding the Activity and assume responsibility for my actions, understanding that the circumstances of an Activity may require a standard of behavior that may differ from that which is applicable on campus. I will comply with the College's/University's rules, standards and instructions for student behavior, including the College's Code of Student Conduct and the Henderson Rules of Public Order. I acknowledge and understand that my compliance is important to the success of the Activity and to the University's/College's willingness to permit future similar activities. I waive and release all claims against the College/University that arise at a time when I am not under the direct supervision of the College/University or that are caused by my failure to remain under such supervision or to comply with such rules, standards and instructions.
5. I agree that the College/University has the right to enforce the standards and conduct described herein in its sole judgment and that it may impose restrictions, up to and including removal and termination from the Activity for violating these standards or for any behavior detrimental to or incompatible with the interest, harmony and welfare of the College, the University, the Activity or other participants. If I am terminated from the Activity, I consent to being sent home at my own expense with no refund of fees.
6. I have no health-related reasons or problems that preclude or restrict my participation in the Activity. I have or will obtain and maintain health, accident, disability, hospitalization and travel insurance as I deem necessary to participate in the Activity, and I will be responsible for the costs of such insurance and for any expenses not covered by insurance.
7. I have disclosed to the College/University any physical, mental and emotional conditions or problems that might impair my ability to participate in the Activity, and I hereby release the College/University and its trustees, officers, employees, agents and representatives from any and all claims, demands, injuries, damages, losses, actions, causes of action, or expenses whatsoever arising out of my failure to disclose such conditions or problems.
8. The College/University may, but is not obligated to, take any actions regarding my health and safety that it considers to be warranted under the circumstances. I hereby authorize the College/University to make such decisions as may be necessary if it is unable to reach the Emergency Contact

Person(s) named above. I agree to pay all expenses relating thereto and release the College/University from any liability for any such actions.

9. I will assume full financial responsibility for all costs and expenses incurred by me in connection with the Activity, including, without limitation, financial responsibility for damage or destruction to property of third parties.
10. I will not hold myself out as having the power or authority to bind or create liability for the College or the University.
11. I agree that should any provision or aspect of this Release be found to be unenforceable, all remaining provisions will remain in full force and effect.
12. This Release represents my complete understanding with the College and the University concerning their responsibility and liability for my participation in the Activity. It supersedes any previous or contemporaneous understandings I may have had with the College or the University on this subject, whether written or oral, and cannot be changed or amended in any way without my written concurrence.
13. Check one: I am at least eighteen years old.
 I am not yet eighteen years old and therefore have secured the signature of my parent or guardian (see next page) as well as my own.

I have read this Waiver and Release Agreement carefully and I am signing it voluntarily.

Date: _____

Signature: _____

FOR APPROVAL:

BY MARCELA ARMOZA, VP, STUDENT AFFAIRS, N300 - AT LEAST 2 WEEKS PRIOR TO TRAVEL

INTERNAL USE ONLY		
<hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> Sponsor Print Name	<hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> Signature	<hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> Date
<hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> Marcela Armoza or Designee	<hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> Signature	<hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> Date
Comments:		

**IF STUDENT IS UNDER THE AGE OF 18, PARENT OR LEGAL GUARDIAN
MUST COMPLETE AND NOTARIZE THE FOLLOWING:**

I, _____
Print Full Name

- (a) am the parent or legal guardian of the Student who signed this Waiver and Release Agreement;
- (b) have read this Waiver and Release Agreement (including such parts as may subject me to personal financial responsibility);
- (c) am and will be legally responsible for the obligations and acts of the Student as described in this Release; and
- (d) agree, for myself and for the Student, to be bound by its terms.

Signature of Parent or Guardian

STATE OF _____)

) ss.:

COUNTY OF _____)

On this ____ day of _____, 20____, _____ before me,
the undersigned, personally appeared and proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Notary Stamp

Notary Public