Eugenio María de Hostos Community College of the City University of New York
Academic Advisement, Division of Academic Affairs

For an Associate in Science (A.S) Degree in Civil Engineering Science

Civil Engineering Science

- *Hostos Community College offers the Associate in Science (A.S.) degree in Civil Engineering as a jointly registered, dual admission program with the existing Bachelor of Engineering in Civil Engineering (B.E./C.E.) at the City College of New York. The program has been designed to meet the licensure guidelines of the Accreditation Board of Engineering and Technology (ABET).*

- *This program is designed to provide HCC students with the same curriculum as the first two years of the licensure qualifying Civil Engineering program required at CCNY. The collegial nature of the program will facilitate the transition to the professional portion of the curriculum.*

- *HCC students will be enrolled in the existing science and mathematics courses at Hostos and will be given permit to enroll in the eight engineering courses at CCNY until such time as there is sufficient enrollment to offer the course(s) at Hostos.*

Hostos Community College

First Year – Fall		**Credits**
MAT 210	Calculus I	4.0
ENG 110	Expository Writing	3.0
CHE 210	Chemistry I	4.0
HUM 100	Introduction to Humanities	3.0
SOC 101	Introduction to Sociology	3.0
Subtotal		**17.0**

First Year – Spring		**Credits**
MAT 220	Calculus II	4.0
ENG 111	Literature & Composition	3.0
CHE 220	Chemistry II	4.0
PHY 210	Physics I	4.0
MAT 200	Modern Programming	3.0
Subtotal		**18.0**

Second Year – Fall		**Credits**
MAT 310	Calculus III	4.0
PSY 101	General Psychology	3.0
CE 20900*	Structural and Site Plans	3.0
PHY 220	Physics II	4.0
Subtotal		**14.0**

Second Year- Spring		**Credits**
MAT 360	Differential Equations	3.0
CE 264*	Data Analysis	3.0
ENG 202	Technical Writing	3.0
VPA 192	Fundamentals of Public Speaking	3.0
MAT 320	Linear Algebra	3.0
Subtotal		**15.0**
Total Hostos Credits for Degree		**64.0**

City College of New York (CCNY)

CCNY - Third Year – Fall		**Credits**
CE 34000	Structural Analysis	3.0
CE 36500	Hydrology & Hydraulic Engineering	3.0
CE 33500	Computational Methods in CE	3.0
CE 32600	Transportation Engineering	3.0
MA 39200	Linear Algebra /Vector Analysis	3.0
LA	Liberal Arts Elective;	
32800	Global Environmental Hazards **OR**	
BIO 35000		3.0
Subtotal…		**18.0**

CCNY - Third Year – Spring...		**Credits**
CE 34500	Soil Mechanics	3.0
CE 31600	Civil Engineering Decision & Systems Analysis	3.0
CE 44100	Reinforced Concrete	3.0
CE 32700	Transportation Systems Engineering	3.0
ENGR 23000	Thermodynamics	3.0
LA	Liberal Arts Electives	3.0
Subtotal		**18.0**

CCNY - Fourth Year – Fall		**Credits**
CE 40500	Civil Engineering Management	3.0
CE 43500	Dynamics of Civil Engineering Systems	3.0
CE 40100	Reviews of Engineering Fundamentals	1.0
CE 47400	Environmental Engineering	3.0
Specialization Core (Select one option)		6.0
Structures		
CE 44000	Finite Element Analysis of Structures	
CE 44200	Structural Design	
OR		
Environmental		
CE 45100	Environmental Water Resources	
CE 48200	Environmental Engineering II	
OR		
Transportation		
CE 52000	Traffic Engineering	
CE 54000	Highways Engineering	
Subtotal		**16.0**

CCNY - Fourth Year – Spring.		**Credits**
CE 50900	Senior Design Project	3.0
CE 37200	Environ. Impact Assess.	3.0
Liberal Arts Elective		3.0
Specialization Design Electives		6.0

(Take two courses from the same specialization option selected above)

Structures	
CE 51000	Independent Study
CE 53000	Advanced Strength of Materials
CE 55000	Advanced Reinforced Concrete

CE 59000 ..... Foundation of Engineering
CE G2300 ..... Advanced Steel Design
ME 46100 ..... Engineering Materials
OR
Environmental
BIO 35000 ..... Microbiology
CE 51000 ..... Independent Study
CE 57100 ..... Water Quality Analysis
CHEM 26100 ..... Organic Chemistry I
EAS 21300..... Engineering Geology
OR
Transportation
CE 50500 ..... Construction Project Management
CE 51000 ..... Independent Study
CE 52500 ..... Geometric Design of Facilities
CE 52600 ..... Rail System Design
CE 54100 ..... Highway & Airport Construction
CE 54500 ..... Urban Transportation
CE 59000 ..... Foundation of Engineering
Subtotal..... 15
TOTAL CCNY CREDITS..... 67
TOTAL DEGREE CREDITS... 135
Bachelor of Engineering in Civil Engineering – B.E (C.E)
*Courses will be co-listed.

1. New freshmen engineering students are no longer required to take NSS 10000: New Freshman Seminar (0 cr.).

2. "C" Passing Grade Requirement: MAT 200; MAT 210; MAT 220; MAT 310; MAT 320; MAT 360; CHE 210; CHE 220; PHY 210; PHY 220; CE 20900; CE 26400; ENGR 204 require a minimum passing grade of "C". It is required a 2.7 GPA in order to be transferred to City College.

3. CUNY ACT & SKAT Requirements: Students must pass the CUNY/ACT in Reading and Writing and CUNY Mathematics Skills Assessment Test (SKAT) before completing 61 credits.

4. General Education / Liberal Arts Requirements: CE students must take six approved courses (18 credits) of which at least two (6 credits) must be at the 20000 level or higher. The six courses must satisfy at least three of the four approved general education clusters. Only courses in these four clusters are eligible: Professional and Ethical Responsibilities Cluster (Outcome f), Communication Cluster (outcome g), Global and Societal Context Cluster (outcome h), and Contemporary Issues Cluster (Outcome j). A list of approved courses is posted on the School of Engineering web site at http://www.ccny.cuny.edu/engineering/genreq.html and can be viewed at the Office of Undergraduate Affairs (ST-209) or the Office of Student Programs (ST-2M). This list is subject to periodic review and updates.

5. Other Graduation Requirements: Apply for graduation during registration for the last semester. Minimum GPA of 2.00. Minimum QPA of zero. Residency Requirement: 33 credits of 30000-level or higher Civil Engineering courses.

6. New Transfer Students who have already completed the equivalent of Calculus II (Math 20200) should not take Engr. 10100. They are required to complete an additional 1-credit design project by taking CE 51000 (Independent Study).

7. Program Changes: Substitution of other courses for required courses must be approved by the Chair of the Civil Engineering Department (ST-119), and the Associate Dean of the Office of Undergraduate Affairs (ST-209).

8. Declaring Your Major: Freshmen, sophomores, juniors and new transfer.