



Eugenio María de Hostos Community College
 500 Grand Concourse Bronx, New York 10451
 Telephone (718) 518-6663 Fax (718) 518-6829



**Eugenio Maria de Hostos Community College
 and
 The City College**

JOINT PROGRAM IN CHEMICAL ENGINEERING

Hostos

First Year – Fall	Credits	Spring	Credits
MAT 1642 Calculus I	4	MAT 1644 Calculus II	4
ENG 1302 Composition I	3	ENG 1303 Literature and Composition	3
CHE 210 Chemistry I	3	CHE 220 Chemistry II	3
CHE 212 Chemistry Lab I	1	CHE 222 Chemistry Lab II	1
*ENGR 10100 Engineering Design I	1	*ENGR 10300 Analysis Tools for Engineers	2
Liberal Arts Elective	4	Liberal Arts Elective	3
Total	16	Total	16
Second Year – Fall	Credits	Spring	Credits
MAT 1646 Calculus III	4	MAT 1742 Differential Equations	3
*ChE 22800 Intro to Chemical Engineering Principals & Practice	4	*CHEM 33000 Physical Chem I	3
*CHE 310 Organic Chem I	3	*CHE 320 Organic Chem II	3
Liberal Arts Elective	3	*CHE 312 Organic Chem Lab I	2
PHY 4502 Physics I	4	PHY 4504 Physics II	4
		*ChE 22900 Chem Engr Thermo I	3
	18	Total	18

TOTAL HOSTOS CREDITS 68
Associate Degree in Chemical Engineering Science (AS)

CCNY

Third Year – Fall

CHEM33200 Physical Chem II	3
ChE 33000 Engr Thermo II	3
ChE 34100 Trans Phenomena I	3
ChE 34900 Prob, Stat & Design Expt	2
MA 39200 Linear Alegbra/Vector	3
ENG 21007 Writing for Engr	<u>3</u>
Total	17

Spring

ChE 31000 Intro/Materials Science	3
ChE 36000 ChE Science Lab	2
ChE 34200 Trans Phenomena II	3
ChE 34600 Transport Operations	3
ChE 34500 Separations Operations	<u>3</u>
Total	14

Fourth Year – Fall

ChE 43210 Chemical Reactions	3
ChE 46000 Transport Operations Lab	2
ChE 47900 Process & Control	3
ChE 49500 Techn Chem Engr Design	3
LA Liberal Arts elective	3
Technical Elective (select one course)	<u>3</u>
Total	17

Spring

ChE 46200 Separ Opers & Contr Lab	2
ChE 49600 Chem Engr Design Project	3
Technical Electives (select 3 courses)	<u>9</u>
Total	14

Technical Electives (see note below +)

ChE 45200 Powder Sci & Tech	ChE 57700 Advanced Materials	BME 50100 Cell/Tissue Mech**
ChE 46700 Polymer Sci & Eng	ChE 58000 Bioprocess Engr	BME 50200 Cell/Tissue Transport**
ChE 49800 Research I (3cr)	ChE 59000 Nanotechnology	Engr 27600 Engr Economics
ChE 49900 Research II (3 cr)	CE 38000 Environmental Engr	ME 53600 Energy Conversion
ChE 51200 Pharmaceutical Appl	ChE 59802 Fluidization	BME 50300 Cell/Tiss Biomat'ls**
ChE 54800 Comp Methods	Bio 32100 Human Physiolog y**	

+ Technical Elective Requirements:

Select three courses from the Technical Electives, but no more than one 2-cr course and no more than one Biomedical Engineering course (denoted by asterisks **). Students who select the Biomedical Engineering Option must take Bio 32100, ME 50100, 50200 & 50300 (total 13 credits) as their Technical Electives, for a total of 131 degree credits.

TOTAL CCNY CREDITS 62-63

TOTAL DEGREE CREDITS 130-131

Bachelor of Engineering in Chemical Engineering - B.E.(ChE)

* Course will be co-listed. Students will be given a permit to attend CCNY until such time as there is sufficient enrollment to offer the course at Hostos.

General Education/Liberal Arts Requirements:

Eligible courses that can be used to fulfill the general education requirement must be equivalent to or selected from only those courses listed as meeting the objectives of the following four clusters: i) Professional and Ethical Responsibilities Cluster (Outcome f), ii) Communication Cluster (Outcome g), iii) Global and Societal Context Cluster (Outcome h), and iv) Contemporary Issues Cluster (outcome j). A list of approved courses is posted on the School of Engineering web site at <http://www.cuny.edu/engineering> and can be viewed at the Office of Undergraduate Affairs (T-209) or the Office of Student Programs (T-2M). This list is subject to periodic review and updates.