Hostos Community College Program of Study Leading to the A.S. Degree in Chemical Engineering CUNY PATHWAYS – Chemical Engineering (AS)

First Year – Fall		
Mathematical and Quantita	tive Reasoning:	
MAT 210	Calculus I (Required)	4.0
ENG 110	Expository Writing	3.0
Life and Physical Sciences:		
CHE 210	General Chemistry I (Required)	4.0
World Cultures and Global	Issues:	
HUM 100	Introduction to Humanities (Strongly Recommended)	3.0
Individual and Society (Cho	oose 1):	
SOC 101 OR	Introduction to Sociology OR	2.0
PSY 101	Introduction to Psychology (Strongly Recommended)	3.0
SubTotal		17.0
Spring		
MAT 220	Calculus II	4.0
ENG 111	Literature and Composition	3.0
Scientific World:		
CHE 220	General Chemistry II	4.0
ENG 202	Technical Writing for Engineering	3.0
Creative Expression:		
VPA 192	Fundamentals of Public Speaking	3.0
SubTotal		17.0
Second Year - Fall		
MAT 310	Calculus III	4.0
*CHE 22800	Introduction to Chemical Engineering Principles & Practice	5.0
One (1) additional course fr	om Scientific World :	
**CHE 310	Organic Chemistry I	3.0
PHY 210	General Physics I	4.0
SubTotal		16.0
Spring		
MAT 360	Differential Equations	3.0
MAT 320	Linear Algebra and Vector Analysis	3.0
**CHE 320	Organic Chemistry II	3.0
**CHE 312	Organic Chemistry Lab I	2.0
PHY 220	General Physics II	4.0
U.S. Experience in its Diver	sity:	
HIS 210 <u>OR</u>	United States History: Through the Civil War OR	3.0
HIS 211	United States History: Reconstruction to the Present	
SubTotal		18.0
TOTAL HOSTOS CREDIT	68.0	

^{**}CHE 310, CHE 312 and ChE 22800 are offered in fall semester; CHE 320 is offered in spring semester.

[&]quot;C" Passing Grade Requirement: MAT 210; MAT 220; MAT 310; MAT 320; MAT 360; CHE 210; CHE 220; CHE 310; CHE 312; CHE 320; ChE 22800; PHY 210; PHY 220 require a minimum passing grade of "C". It is required a **2.7 Overall GPA** and a **2.5 Sciences GPA** in order to be transferred to City College.

Hostos CC Pathways Common Core Approved Courses (30 Credits)

Required Common Core Courses			Flexible Common Core Courses					
English Composition	Mathematical and Quantitative Reasoning	Life and Physical Sciences	World Cultures and Global Issues	U.S. Experience in Its Diversity	Creative Expression	Individual and Society	Scientific World	
ENG 101	MAT 100	BIO 110	ANT 101	BLS 114	ENG 203	CJ 101	BIO 120	
ENG 102	MAT 105	BIO 210	BLS 101	ENG 225	ENG 204	ECO 101	BIO 130	
ENG 110	MAT 115	BIO 220	ENG 200	HIS 210	ENG 210	ECO 102	BIO 210	
ENG 111	MAT 119	BIO 230	ENG 213	HIS 211	ENG 212	ENG 223	BIO 220	
	MAT 120	BIO 240	ENG 215	LAC 101	ENG 214	ENG 224	BIO 230	
	MAT 160	CHE 105	ENG 222	LAC 132	ENG 221	ENG 228	BIO 240	
	MAT 210	CHE 110	HIS 201	POL 101	LAC 246	ENG 230	BIO 260	
	MAT 220	CHE 210	HIS 202	WGS 100	VPA 114	LIN 100	BIO 310	
	MAT 310	CHE 220	HUM 100		VPA 141	LIN 102	CHE 210	
		ENV 110	LAC 108		VPA 181	LIN 103	CHE 220	
		PHY 105	LAC 118		VPA 192	PSY 101	CHE 310	
		PHY 110	POL 207			PSY 110	CHE 312	
		PHY 120	SPA 117			PSY 120	ENV 120	
		PHY 210	SPA 118			PSY 121	MAT 160	
		PHY 220	WGS 200			SOC 101	MAT 210	
							MAT 310	
							PHY 110	
							PHY 120	
							PHY 210	
							PHY 220	