Hostos Community College Program of Study Leading to the A.S. Degree in Civil Engineering: Track I <u>CUNY PATHWAYS – Civil Engineering (AS)</u>

| First Year – Fall | Credits | |
|--|--|------|
| Mathematical and Quantitative | 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 Issu | es: | |
| HUM 100 | Introduction to humanities (Strongly Recommended) | 3.0 |
| Individual and Society (Choose 1 | 1): | |
| SOC 101 <u>OR</u> | Introduction to Sociology <u>OR</u> | 3.0 |
| PSY 101 | Introduction to Psychology (Strongly Recommended) | 5.0 |
| 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 |
| One (1) additional Course from | Scientific World: | |
| PHY 210 | General Physics I | 4.0 |
| MAT 215 | Modern Programming | 3.0 |
| Total | | 18.0 |
| Second Year – Fall | | |
| MAT 310 | Calculus III | 4.0 |
| PHY 220 | General Physics II | 4.0 |
| U.S. Experience in its Diversity: | | |
| HIS 210 <u>OR</u> | United States History: Through the Civil War OR | |
| HIS 211 | United States History: Reconstruction to the Present | 3.0 |
| *CE 20900 | Structural and Site Plans | 3.0 |
| SubTotal | | 14.0 |
| Spring | | |
| MAT 360 | Differential Equations | 3.0 |
| MAT 320 | Linear Algebra with Vector Analysis | 3.0 |
| *CE 26400 <u>OR</u> | Civil Engineering Data Analysis OR | 3.0 |
| ENGR 204 | Electrical Circuits | |
| ENG 202 | Technical Writing for Engineering | 3.0 |
| Creative Expression: | | |
| VPA 192 | Fundamentals of Public Speaking | 3.0 |
| SubTotal | | 15.0 |
| TOTAL HOSTOS CREDITS | 64.0 | |

*CE 20900 and CE 26400 will be taken on ePermit at CCNY

[&]quot;C" Passing Grade Requirement: MAT 210; MAT 215; MAT 220; MAT 310; MAT 320; MAT 360; CHE 210; CHE 220; 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 | 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 | MAT 160 | |
| | | PHY 210 | SPA 118 | | | PSY 121 | MAT 210 | |
| | | PHY 220 | WGS 200 | | | SOC 101 | MAT 310 | |
| | | | | | | | PHY 110 | |
| | | | | | | | PHY 120 | |
| | | | | | | | PHY 210 | |
| | | | | | | | PHY 220 | |