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

PATHWAYS - Civil Engineering Science (A.S.)

REQUIRED COMMON CORE

English Composition **6**
ENG 110, ENG 111
Mathematical & Quantitative Reasoning...**4**
MAT 210 Required
Life and Physical Sciences **4**
CHE 210 Required

FLEXIBLE COMMON CORE

World Cultures and Global Issues...**3**
ANT 101, BLS 101, ENG 200, ENG 213, ENG 215, ENG 222, HIS 201, HIS 202, **HUM 100,** LAC 108,
LAC 118, POL 207, SPA 117, SPA 118, WGS 200. **HUM 100 strongly recommended.**
US Experience in its Diversity **3**
BLS 114, ENG 225, **HIS 210, HIS 211**, HIS 214, LAC 101, LAC 132, POL 101, WGS 100
HIS 210 OR HIS 211 strongly recommended.
Creative Expression **3**
ENG 203, ENG 204, ENG 210, ENG 212, ENG 214, ENG 221, LAC 246, VPA 114, VPA 141, VPA 181,
VPA 192 - VPA 192 strongly recommended.
Individual & Society........ ....**3**
ECO 101, ECO 102, CJ 101, ENG 223, ENG 224, ENG 228, ENG 230, LIN 100, LIN 102, LIN 103, PSY 101,
PSY 110, PSY 120, PSY 121, **SOC 101 or PSY 101 strongly recommended.**
Scientific World **4**
CHE 220 Required
One (1) additional course from the Scientific World **4**
PHY 210 Required
Subtotal **34**

MAJOR REQUIREMENTS

ENG 202	Technical Writing	3
CSC 215	Modern Programming	3
MAT 220	Calculus II	4
MAT 310	Calculus III	4
MAT 320	Linear Algebra & Vector Analysis	3
MAT 360	Ordinary Differential Equations	3
PHY 220	Physics II	4
Subtotal		**24**

CHOOSE ONE OF THE FOLLOWING CONCENTRATIONS:
Track I - Civil Engineering

*CE 20900	Structural and Site Plans	3
*CE 264	Data Analysis **OR**	
ENGR 204	Electrical Circuits	3

Track II - Environmental Engineering & Earth Systems

ENGR 204 .... Electrical Circuits **OR** 3
ENGR 103 .... Analysis Tools for Engineers 2
ENGR 106/EAS 106............................ Earth System Science & Engineering Earth Sciences.........................4
Subtotal...**6-7**
Total Credits for Degree 65-65

*Note: The program has received a waiver to specify particular courses students must take in STEM areas of the Common Core. If students take different courses in these areas, they will be certified as having completed the Common Core area, but it may not be possible for them to finish their degree program within the regular number of credits. *CE 209 and CE 264 will be taken on ePermit at CCNY.*