## **PATHWAYS** Engineering Science (A.S. Degree) FALL 2016-SPRING 2017

Articulation and transfer: http://www.bcc.cuny.edu/TransferCounseling/

☐ EQL 1 (8) **...** ☐ EQL 2 (6) **...** ☐ EQL 3 (6) **...** ☐ ENC 0 (4)

REMEDIAL SEQUENCE (if required)

☐ ENG 1 (4) <b>→</b> ☐ ENG 2 (4)	FLEXIBLE COMMON CORE (Course list at: http://www.bcc.cuny.edu/pathways/?p=Flexible-Common-Core)
	Students can complete no more than two courses from any one discipline or interdisciplinary field.
☐ RDL 1 (4) ➤ ☐ RDL 2 (6)	☐ A World Cultures and Global Issues <sup>2</sup>
☐ MTH 1 (4) → ☐ MTH 5 (6) → ☐ MTH 6 (6)	B US Experience in its Diversity <sup>2</sup>
	☐ C Creative Expression <sup>2</sup>
☐ CHM 2 (4)	☐ D Individual and Society <sup>2</sup>
ODADUATION DECUMENTS	☐ E Scientific World¹ PHY 32 Physics II AND CHM 11 General Chemistry I
GRADUATION REQUIREMENTS	Subtot
$\square$ CAT-R $\square$ CAT-W $\square$ CAT-M $\square$ GPA $\geq 2.0$	
☐ Writing Intensive 1 ☐ Writing Intensive 2	MAJOR REQUIREMENTS
	☐ EGR 11 Introduction to Engineering Design
FRESHMEN SEMINAR	☐ EGR 21 Analysis Tool for Engineers OR
☐ FYS 11 / OCD 1	☐ EGR 31 Circuit Analysis
	MTH 31 Analytic Geometry & Calculus I
<sup>1</sup> This program has received a waiver to require students to take MTH 30 or MTH 31 to fulfill	MTH 32 Analytic Geometry & Calculus II
Required Area B, PHY 31 to fulfill Required Core C, PHY 32 to fulfill Flexible Area E and CHM	☐ MTH 33 Analytic Geometry & Calculus III
11 to fulfill the 6 <sup>th</sup> Flexible Area course. Note that MTH 30 is a prerequisite to MTH 31. If students transferring into this program complete different courses in these areas, they will be	☐ MTH 34 Differential Equations & Selected Topics in Advanced Calculus
certified as having completed the Common Core requirements, but it may not be possible for	☐ PHY 33 Physics III
them to finish their degree within the regular number (60) of credits.	☐ ELEC Restricted Electives Select from the following
	CHM 12 General Chemistry II OR CHM 22 General Chemistry II with Qualitative Analysis 4-5
<sup>2</sup> In choosing courses to fulfill Pathways Flexible core requirements for Areas A, B, C, and D,	CHM 31 Organic Chemistry I 5
students are strongly advised to select courses from no fewer than three (3) different departments.	EGR 21 Analysis Tools for Engineers
departments.	EGR 31 Circuit Analysis Since the English of the En
Note: Students are encouraged to begin Transfer Planning early in their Academic careers.	ELC 96 Digital Systems I
Please visit the Transfer Planning web site for the timeline as well as the information on	Cultivial



REQUIRED COMMON CORE

 $\square$  B

ПС

**English Composition** 

PHY 31 Physics I

Life and Physical Sciences<sup>1</sup>

ENG 10 OR ENG 11 AND ENG 12, ENG 14, ENG 15, OR ENG 16

MTH 30 Pre-calculus Mathematics OR MTH 31 Analytic Geometry & Calculus I

4

14

3 3

3 3 8

20

2-3

0-4

0-5

26

5 5

Subtotal:

Subtotal:

2

3

Subtotal:

TOTAL

Mathematical and Quantitative Reasoning<sup>1</sup>