**PATHWAYS**

**Computer Science (A.S. Degree)**

**Fall 2017**

### REMEDIAL SEQUENCE (if required)
- ESL 1 (8)
- ESL 2 (6)
- ESL 3 (6)
- ENG 9 (4)
- ENG 1 (4)
- ENG 2 (4)
- RDL 1 (4)
- RDL 2 (6)
- MTH 1 (4)
- MTH 5 (6)
- MTH 6 (6)
- CHM 2 (4)

### GRADUATION REQUIREMENTS
- CAT-R
- CAT-W
- CAT-M
- GPA > 2.0
- Writing Intensive I
- Writing Intensive II

### PATHWAYS REQUIRED CORE (course list available online)
- **A**
  - English Composition – ENG 10/11 and ENG 12/14/15/16 6
  - Mathematical and Quantitative Reasoning – MTH 30/31 4

### PATHWAYS FLEXIBLE CORE (course list available online)
- **A**
  - World Cultures and Global Issues 3
- **B**
  - US Experience in its Diversity 3
- **C**
  - Creative Expression 3
- **D**
  - Individual and Society 3

### PATHWAYS Science Selection
- **C**
  - Required Core C 4
  - Life and Physical Sci. - Lab Science I 4
  - Scientific World - Lab Science II 4
- **E**
  - Flexible Core E 4

**Pathways Total:** 30

1. MTH 30 (Pre-Calculus) is a pre-requisite for MTH 31. Students who do not place out of MTH 30 should note that MTH 31 is a co-requisite of MTH 31.

2. Lab Science I & II must form a sequence, e.g., BIO 11 & BIO 12. PHY 31 and PHY 32 have co-requisites of MTH 31 and MTH 32 respectively.

Notes:
- This program has been given a waiver to require its students to take MTH 31 to fulfill Required Area B; BIO 11 or CHM 11 or PHY 11 or PHY 31 to fulfill Required Area C; and BIO 12 or CHM 12 or PHY 12 or PHY 32 to fulfill Flexible Area E. If students transferring into this program complete different course in these areas, they will be certified as having completed the Common Core requirements, but it may not be possible for them to finish their degree within the regular number (60) of credits. Students are encouraged to begin transfer planning early in their academic careers. Please visit the Transfer Planning web site for the timeline as well as information on articulation and transfer: [http://www.bcc.cuny.edu/TransferCounseling/](http://www.bcc.cuny.edu/TransferCounseling/).
- Computer Science and Mathematics must be taken each semester or graduation will be delayed.

**RECOMMENDED 2 YEAR ACADEMIC PLAN FOR FULL-TIME STUDENTS**

#### SEMESTER I
- **ENG 10 OR ENG 11** Fundamentals of Composition and Rhetoric OR Composition and Rhetoric I 3
- **CSI 30** Discrete Mathematics I (Flex E) 3
- **MTH 31** Analytic Geometry & Calculus I (pre-req MTH 30) 4
- **BIO 11 OR CHM 11 OR PHY 11 OR PHY 31** Lab Science I 2 4

**Subtotal: (hours) credits** 14

#### SEMESTER II
- **ENG 12 OR ENG 14 OR ENG 15 OR ENG 16** Composition and Rhetoric II OR Written Composition and Prose Fiction OR Written Composition and Drama OR Written Composition and Poetry 3
- **CSI 31** Intro to Computer Programming I 3
- **MTH 32** Analytic Geometry & Calculus II 5
- **BIO 12 OR CHM 12 OR PHY 12 OR PHY 32** Lab Science II 2 4

**Subtotal: (hours) credits** 15

#### SEMESTER III
- **CSI 32** Intro to Computer Programming II 3
- **MTH 33** Analytic Geometry & Calculus III 5
- **XXX** Select one course from Flexible Core A/B/C/D 3
- **XXX** Select one course from Flexible Core A/B/C/D (new category) 3

**Subtotal: (hours) credits** 14

#### SEMESTER IV
- **CSI 33** Data Structures 3
- **CSI 35** Discrete Mathematics II 3
- **XXX** Select one course from Flexible Core A/B/C/D (new category) 3
- **XXX** Select one course from Flexible Core A/B/C/D (new category) 3
- **XXX** Free Electives 1 (to bring total to 60 credits) 1/5

**Subtotal: (hours) credits** 1/5

**TOTAL CREDITS:** 60

This document is for advisement purposes only and does not represent an official listing of degree requirements; please consult the college catalog and the on-line degree audit.