# BRONX COMMUNITY COLLEGE
## Degree Map

# COMPUTER SCIENCE

## A.S. Degree*

[1] Students with English Proficiency Index (EPI) of 0-49 enroll in corequisite course ENG 100. Students with EPI of 50-64 enroll in corequisite course ENG 110. Students with EPI of at least 65 (or other English proficiency qualification) enroll in ENG 111. Students with ESL need should take appropriate ESL course/s (Sequence: ESL 01 > 02 > 03 > 09) before enrolling in ENG 110.

[2] Students are eligible to enroll in MTH 28 if they have successfully completed an elementary algebra math intervention at a CUNY college (e.g., Math Proficiency Workshop, CUNY Start Math, Math Start), or if they are CUNY Math proficient AND had the appropriate math background in high school. See the Mathematics Course Placement page in the College Catalog.

Students not eligible for MTH 28 or higher courses enroll in corequisite course MTH 28.5. However, note that students with Math Proficiency Index of 39 or lower are strongly encouraged to enroll in Math Start/CUNY Start.

[3] This program has received a waiver to require students to complete specific STEM/STEM Variant courses in Required Core B, Required Core C and Flexible Core E. If students transferring into this program complete different courses 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.

[4] If a student is required to take MTH 28/28.5 College Algebra and Elementary Trigonometry or MTH 30 Precalculus, then the following applies:
- If MTH 28/28.5 is required, then MTH 28/28.5 applies to Required Core B; MTH 30 applies to Flexible Core E; and CSI 30 and MTH 31 will be required in the major courses. Free electives reduced to 0.
- If student is exempted from MTH 28 but MTH 30 is required, then MTH 30 applies to Required Core B and MTH 31 will be required in the major courses. Free electives reduced to 3.

[5] See Common Core Pathways course listing.

**\*Note: In order to graduate, students must meet all requirements, including, completing all required courses with appropriate grades, completing two writing intensive courses, and earning a minimum GPA of 2.0, and applying for graduation.**

| SEMESTER I    Freshman | Prerequisite/Corequisite | |
|---|---|---|
| ☐ **Required Core A:** English Composition I - ENG 100 Integrated Reading and Writing **OR** ENG 110 Fundamentals of Writing and Rhetoric **OR** ENG 111 Writing and Rhetoric[1] | See footnote[1] | 3 |
| ☐ **Required Core B**: MTH 28 College Algebra and Elementary Trigonometry **OR** MTH 28.5 College Algebra and Elementary Trigonometry Corequisite[2,3,4] | See footnote[2] | 3 |
| ☐ **Flexible Core A-D:** Select **ONE** course from any Flexible Core Area[5] | See catalog[5] | 3 |
| ☐ **Flexible Core A-D:** Select **ONE** course from different Flexible Core Area[5] | See catalog[5] | 3 |
| **WINTER/SUMMER SESSION** | Prerequisite/Corequisite | |
| ☐ **Major Requirement:** CSI 30 Discrete Mathematics I[4] | MTH 28 or 28.5 Corequisite:  ENG 110, if required | 3 |
| ☐ **Flexible Core E:** MTH 30 Pre-Calculus Mathematics[3,4] | MTH 28 or equivalent | 4 |
| **Subtotal:** | | **19** |

| SEMESTER II    Freshman | | |
|---|---|---|
| ☐ **Required Core A:** ENG 112 Composition and Rhetoric II **OR** ENG 113 Writing About Literature **OR** ENG 114 Written Composition and Prose Fiction **OR** ENG 115 Written Composition and Drama **OR** ENG 116 Written Composition and Poetry | ENG 100, ENG 110, or ENG 111 | 3 |
| ☐ **Major Requirement:** CSI 31 Intro to Computer Programming I | CSI 30; CUNY English Proficiency or ENG 100 or 110, if required Corequisite:  MTH 31 | 3 |
| ☐ **Major Requirement:** MTH 31 Analytic Geometry and Calculus I | MTH 30 or equivalent; CUNY English Proficiency or ENG 100 or 110, if required | 4 |
| ☐ **Required Core C/Science I**[3]: select **ONE** from BIO 11 General Biology **OR** BIO 120 Biology I **OR** CHM 11 General College Chemistry I **OR** PHY 11 College Physics I **OR** PHY 31 Physics I | See catalog[3] | 4 |
| **Subtotal:** | | **14** |

| SEMESTER III    Sophomore | | |
|---|---|---|
| ☐ **Major Requirement:** CSI 32 Intro to Computer Programming II | CSI 31; CUNY English Proficiency or ENG 100 or 110, if required | 3 |
| ☐ **Major Requirement:** CSI 35 Discrete Mathematics II | CSI 30 and MTH 31; CUNY English Proficiency or ENG 100 or 110, if required | 3 |
| ☐ **Major Requirement:** MTH 32 Analytic Geometry and Calculus II | MTH 31 or equivalent; CUNY English Proficiency or ENG 100 or 110, if required | 4 |
| ☐ **Flexible Core E/Science II**[3]: select **the second** level from the same subject taken in Science I - BIO 12 General Biology **OR** BIO 121 Biology II **OR** CHM 12 General College Chemistry II **OR** PHY 12 College Physics II **OR** PHY 32 Physics II | See catalog[3] | 4 |
| **Subtotal:** | | **14** |

| SEMESTER IV    Sophomore | Prerequisite/Corequisite | |
|---|---|---|
| ☐ **Major Requirement:** CSI 33 Data Structures | CSI 32 and CSI 35 | 3 |
| ☐ **Major Requirement:** MTH 33 Analytic Geometry and Calculus III | MTH 32 or equivalent; CUNY English Proficiency or ENG 100 or 110, if required | 4 |
| ☐ **Flexible Core A-D:** Select **ONE** course from a different Flexible Core Area[5] | See catalog[5] | 3 |
| ☐ **Flexible Core A-D:** Select **ONE** course from a different Flexible Core Area[5] | See catalog[5] | 3 |
| ☐ Free Elective to complete 60 credits[4] | See catalog[4] | 0-7 |
| **Subtotal:** | | **13** |

**TOTAL: 60**

This degree map represents a recommended semester-by-semester sequences of courses intended to assist students with timely degree completion.  Students should review this map in consultation with their academic advisor, success coach, or faculty advisor in order to make the best course selection and course load consistent with their circumstances. This document is for advisement purposes only and does not represent an official listing of degree requirements; please consult the college catalog, as well as DegreeWorks. (Revised 10/2023)