

## Computer Science (A.S. Degree)

### REMEDIAL/ESL SEQUENCE (if required)

ESL 1 (8) ▶▶  ESL 2 (6) ▶▶  ESL 3 (6) ▶▶  ENG 9 (4)

ENG 1<sup>1</sup> (4) ▶▶  ENG 2<sup>1</sup> (4)

RDL 1<sup>1</sup> (4) ▶▶  RDL 2<sup>1</sup> (6)

MTH 1<sup>2</sup> (4) ▶▶  MTH 5<sup>2</sup> (6) ▶▶  MTH 6<sup>2</sup> (6)

CHM 2<sup>7</sup> (4)

### GRADUATION REQUIREMENTS

GPA ≥ 2.0  Writing Intensive 1  Writing Intensive 2

<sup>1</sup>ENG 1/ENG 2 & RDL 1/RDL 2 are no longer offered. Students with ENG/RDL developmental needs will now enroll in corequisite courses, ENG 100 (If English Proficiency Index < 50), OR ENG 110 (If English Proficiency Index = 50-64).

<sup>2</sup>MTH 1/MTH 5/MTH 6 are no longer offered. CUNY Math Proficient STEM students or those with Math developmental need will now enroll in corequisite course MTH 28.5.

<sup>3</sup>For MTH 28 enrollment, CUNY Math Proficient STEM students will also have to meet one of the following criteria:

Mathematics high school GPA of at least 70 and successful completion of a course beyond Algebra 1,

OR New York State Regents Trigonometry Score of at least 65,

OR New York State Regents Common Core Algebra 2 Score of at least 65.

<sup>4</sup>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 Scientific World; 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.

<sup>5</sup>This program has received a waiver to require students to complete specific STEM/STEM

Variant courses in Required Area B, Required Area C and Flexible Area 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.

<sup>6</sup>Lab Science I & II must form a sequence, e.g., BIO 11 & BIO 12.

<sup>7</sup>CHM 2 is a pre-requisite for CHM 11. Students can place out of CHM 2 by taking a Department administered Chemistry Placement Exam or by having a score of 75 or higher on the NYS High School Regents Chemistry exam.

<sup>8</sup>CSI 35 is a prerequisite for CSI 33.

Note: Computer Science and Mathematics courses must be taken each semester and/or session to graduate in two years.

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. [Transfer Services – Bronx Community College \(cuny.edu\)](https://www.cuny.edu/transfer-services/).

## RECOMMENDED 2-YEAR ACADEMIC PLAN

### SEMESTER I

		Credits
<input type="checkbox"/> ENG 100 <sup>1</sup> OR ENG 110 <sup>1</sup> OR ENG 111	English Composition I <sup>1</sup> (Required Core A)	3
<input type="checkbox"/> MTH 28 <sup>2,3,4,5</sup> OR MTH 28.5	College Algebra and Elementary Trigonometry OR Corequisite (Required Core B) <sup>2,3,4,5</sup>	3
<input type="checkbox"/> Flexible Core A-D	Select one course from any Flexible Core A-D	3
<input type="checkbox"/> Flexible Core A-D	Select one course from a different Flexible Core A-D	3
<b>Subtotal:</b>		<b>12</b>

### WINTER/SUMMER SESSION

<input type="checkbox"/> MTH 30 <sup>4,5</sup>	Pre-Calculus Mathematics (Flexible Core E) <sup>4,5</sup>	4
<input type="checkbox"/> CSI 30 <sup>4</sup>	Discrete Mathematics I (Major Requirement/Flexible Core E) <sup>4</sup>	3
<b>Subtotal:</b>		<b>7</b>

### SEMESTER II

<input type="checkbox"/> ENG 112 OR ENG 113 OR ENG 114 OR ENG 115 OR ENG 116	English Composition II (Required Core A)	3
<input type="checkbox"/> CSI 31	Intro to Computer Programming I (Major Requirement)	3
<input type="checkbox"/> MTH 31 <sup>4</sup>	Analytic Geometry & Calculus I (Major Requirement) <sup>4</sup>	4
<input type="checkbox"/> BIO 11 <sup>5,6</sup> OR CHM 11 <sup>5,6,7</sup> OR PHY 11 <sup>5,6</sup> OR PHY 31 <sup>5,6</sup>	SCIENCE I (Required Core C) <sup>5,6</sup>	4
<b>Subtotal:</b>		<b>14</b>

### SEMESTER III

<input type="checkbox"/> CSI 32	Intro to Computer Programming II (Major Requirement)	3
<input type="checkbox"/> MTH 32	Analytic Geometry & Calculus II (Major Requirement)	4
<input type="checkbox"/> CSI 35	Discrete Mathematics II (Major Requirement)	3
<input type="checkbox"/> BIO 11 <sup>5,6</sup> OR CHM 11 <sup>5,6,7</sup> OR PHY 11 <sup>5,6</sup> OR PHY 31 <sup>5,6</sup>	SCIENCE II (Flexible Core E) <sup>5,6</sup>	4
<b>Subtotal:</b>		<b>14</b>

### SEMESTER IV

<input type="checkbox"/> CSI 33 <sup>8</sup>	Data Structures (Major Requirement) <sup>8</sup>	3
<input type="checkbox"/> MTH 33	Analytic Geometry & Calculus III (Major Requirement)	4
<input type="checkbox"/> Flexible Core A-D	Select one course from a different Flexible Core A-D	3
<input type="checkbox"/> Flexible Core A-D	Select one course from a different Flexible Core A-D	3
<input type="checkbox"/> Free Elective <sup>4</sup>	Free Elective to complete 60 credits <sup>4</sup>	0-7
<b>Subtotal:</b>		<b>13</b>

**TOTAL: 60**