

# PATHWAYS

## Computer Information Systems (A.A.S. Degree)

FALL 2021-SPRING 2022

### REMEDIAL 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>3</sup> (4) ▶▶  MTH 5<sup>3</sup> (6)

CHM 2 (4)

### GRADUATION REQUIREMENTS

GPA ≥ 2.0  Writing Intensive 1  Writing Intensive 2

### FRESHMAN SEMINAR

FYS 11<sup>9</sup>

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

<sup>2</sup>Students planning to transfer to a four-year college should take MTH 30 or 31. The prerequisite for MTH 30 is MTH 6.

<sup>3</sup>MTH 1/MTH 5 are no longer available. Students with Math Proficiency Index of 59 or lower may now enroll in corequisite courses MTH 21.5 or MTH 23.5. Students with 39 or lower MPI are strongly encouraged to enroll in Math Start/CUNY Start.

<sup>4</sup>Students may select either a 4-credit or a 3-credit science course. Students selecting a 3-credit course must also complete an additional 1-credit lab course to fulfill graduation requirements.

<sup>5</sup>Reserved for students who have English remedial need, and enroll in ENG 110 as a corequisite.

<sup>6</sup>In an effort to provide students with a well-rounded liberal learning experience, students are encouraged to fulfill this requirement by selecting courses from Flexible Core Areas B, C or E as these areas are not already required by this program.

<sup>7</sup>Students who have completed MTH 6 (or three years high school mathematics) and intend to transfer to a four-year college may take BUS 41 instead of BUS 111.

<sup>8</sup>CWE 31 is a two (2) credit course. Students should enroll in CWE 31 one year before graduating or when they have completed 30 credits towards their degree. Students should see the CWE 31 Coordinator in the Department of Business and Information Systems, during their second semester. Students who are employed full-time are not required to complete the internship portion of CWE 31, provided their employer agrees to participate in course-related surveys. Permission must be obtained from the CWE 31 Coordinator or Department Chairperson by submitting documentation of current full-time employment College. Work-Study assignments within CUNY may not be used as substitutes for the CWE internship.

<sup>9</sup>Students must take FYS 11 prior to earning 24 degree or equated credits. Students who have earned 24 or more degree or equated credits are permitted to use the one credit as a free elective. It is highly recommended that students take FYS 11 in their first or second semester. This requirement will be waived for students who have earned 24 or more degree or equated credits at BCC or another college and transfer into this program.

<sup>10</sup>Students transferring into the program with 24 or more degree or equated credits will be exempt from FYS 11 and only required to complete 60 credits to graduate.

### REQUIRED COMMON CORE

<input type="checkbox"/> A <input type="checkbox"/> A	<b>English Composition</b> ENG 100 <sup>1</sup> OR ENG 110 <sup>1</sup> OR ENG 111; AND ENG 112 OR ENG 113 OR ENG 114 OR ENG 115 OR ENG 116	6
<input type="checkbox"/> B	<b>Mathematical and Quantitative Reasoning<sup>2</sup></b> MTH 21 <sup>3</sup> OR MTH 21.5 <sup>3</sup> OR MTH 23 <sup>3</sup> OR MTH 23.5 <sup>3</sup>	3
<input type="checkbox"/> C	<b>Life and Physical Sciences<sup>4</sup></b> AST 111, BIO 11, CHM 111, CHM 17, ENV 11 ESE 11, ESE 12, ESE 13, PHY 11 OR PHY 110	3-4
<b>Subtotal:</b>		<b>12-13</b>

### FLEXIBLE COMMON CORE (Course list at: <http://www.bcc.cuny.edu/pathways/?p=Flexible-Common-Core>)

<input type="checkbox"/> A	<b>World Cultures and Global Issues</b> HIS 10 History of the Modern World OR HIS 11 <sup>5</sup> Introduction to the Modern World	3
<input type="checkbox"/> B - ECO 12 Macroeconomics OR <input type="checkbox"/> D - ECO 11 Microeconomics		3
<input type="checkbox"/>	<b>Select an additional course from Flexible Core A-E<sup>6</sup></b>	3
<b>Subtotal:</b>		<b>9</b>

### MAJOR REQUIREMENTS (See Degree map at: <http://www.bcc.cuny.edu/academics/academic-advising/degree-maps/> for semester-by-semester sequence)

<input type="checkbox"/> ACC 111	Principles of Accounting I	4
<input type="checkbox"/> BIS 13	Web Development	3
<input type="checkbox"/> BIS 23	Client-Side Programming	3
<input type="checkbox"/> BIS 31	Server-Side Programming	3
<input type="checkbox"/> BUS 110	Introduction to Business Fundamentals	3
<input type="checkbox"/> BUS 111 <sup>7</sup>	Applications of Mathematics for Business <sup>7</sup>	3
<input type="checkbox"/> COMM 12	Voice and Diction: Business and Professional Speech	2
<input type="checkbox"/> CWE 31 <sup>8</sup>	Cooperative Work Experience <sup>8</sup>	2
<input type="checkbox"/> DAT 30	Introduction to Computer Fundamentals and Programming	3
<input type="checkbox"/> DAT 33	Microcomputer Applications	2
<input type="checkbox"/> DAT 47	JAVA Programming	3
<input type="checkbox"/> DAT 49	Linux Operating System	3
<input type="checkbox"/> DAT 51	Web Programming with Python	3
<input type="checkbox"/> KEY 10	Keyboarding for Computers	1
<input type="checkbox"/> LAB <sup>4</sup>	Lab science credit <sup>4</sup>	0-1
<input type="checkbox"/> FYS 11	First Year Seminar <sup>9</sup>	0-1
<b>Subtotal:</b>		<b>38-40</b>
<b>TOTAL:</b>		<b>60-61<sup>10</sup></b>