

## PATHWAYS

### Cybersecurity and Networking (A.A.S. Degree)

FALL 2019-SPRING 2020

#### 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 REQUIREMENT

CAT-R  CAT-W  CAT-M  GPA ≥ 2.0

Writing Intensive 1  Writing Intensive 2

#### FRESHMAN SEMINAR

FYS 11

<sup>1</sup> Students planning to transfer to a four-year degree program are encouraged to take MTH 30 Pre-calculus. Students who take MTH 23 must also complete a one credit elective course.

<sup>2</sup> Students must select the following courses, MTH 30/23, PHY 11, COMM 11, PHY 12, in the core areas noted as they are required for the major and will allow a student to graduate without exceeding 60 credits.

<sup>3</sup> Students must take FYS 11 prior to earning 24 equated or degree credits. Students who have earned 24 or more equated or degree 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.

#### REQUIRED COMMON CORE

<input type="checkbox"/> A	<b>English Composition</b> Two Courses in English Composition	6
<input type="checkbox"/> B	<b>Mathematical and Quantitative Reasoning</b> MTH 30 Pre-Calculus Mathematics or MTH 23 Probability and Statistics <sup>1,2</sup>	3-4
<input type="checkbox"/> C	<b>Life and Physical Sciences</b> PHY 11 College Physics I <sup>2</sup>	4
<b>Subtotal:</b>		<b>13-14</b>

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

<input type="checkbox"/> D	<b>Individual and Society</b> COMM 11 Fundamentals of Interpersonal Communication	3
<input type="checkbox"/> E	<b>Scientific World</b> PHY 12 College Physics II <sup>2</sup>	4
<input type="checkbox"/> A-E	<b>Choose one course from Flexible Core Areas A through E</b> Strongly Recommended: HIS 10 History of the Modern World OR HIS 11 Introduction to the Modern World	3
<b>Subtotal:</b>		<b>10</b>

#### MAJOR REQUIREMENTS

<input type="checkbox"/> ART 10 OR MUS 10	Art Survey OR Music Survey	1
<input type="checkbox"/> FYS 11 <sup>3</sup>	First Year Seminar	1
<input type="checkbox"/> PEA	Physical Education Activity Course	1

#### Cybersecurity/Networking Requirements

<input type="checkbox"/> CSN 100	Introduction to Cybersecurity	3
<input type="checkbox"/> CSN 105	Computer Hardware and Software	3
<input type="checkbox"/> CSN 110	Network Fundamentals	3
<input type="checkbox"/> CSN 120	Network Switching and Routing	3
<input type="checkbox"/> CSN 130	Network Operating Systems I	3
<input type="checkbox"/> CSN 132	Network Operating Systems II	3
<input type="checkbox"/> CSN 140	Network Scripting	4
<input type="checkbox"/> CSN 150	Cybersecurity	4
<input type="checkbox"/> CSN 160	Ethical Hacking and Network Penetration Testing	3
<input type="checkbox"/> CSN 170	Internet and Cloud Computing	3
<input type="checkbox"/> CSN 190	Cybersecurity Project	1
<input type="checkbox"/> Free Elective <sup>1</sup>	Free Elective	0-1
<b>Subtotal:</b>		<b>36</b>
<b>TOTAL:</b>		<b>60</b>