

PATHWAYS

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

FALL 2020-SPRING 2021

REMEDIAL SEQUENCE (if required)

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

ENG 11 (4) ▶▶ ENG 2 (4)

RDL 1¹ (4) ▶▶ RDL 2 (6)

MTH 1 (4) ▶▶ MTH 5² (6) ▶▶ MTH 6 (6)

CHM 2 (4)

GRADUATION REQUIREMENT

GPA ≥ 2.0 Writing Intensive 1 Writing Intensive 2

FRESHMAN SEMINAR

FYS 11⁶

¹Students with prior ENG 1/RDL 1 placements (or English Proficiency Index < 50) will now take ENG 4 or RDL 4. Passing ENG 4 or RDL 4 will allow them to register for ENG 110.

²Students 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. Students with prior MTH 5 placement (or Math Proficiency Index of 40 to 59) may now take MTH 20. Passing MTH 20 is equivalent to MTH 23.

³Students 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.

⁴Reserved for students who have English remedial need, and enroll in ENG 2, RDL 2, or ENG 110 as a corequisite.

⁵See Degree map at: <http://www.bcc.cuny.edu/academics/academic-advising/degree-maps/> for semester-by-semester sequence.

⁶Students 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	English Composition ENG 110 ¹ OR ENG 111; AND ENG 112 OR ENG 113 OR ENG 114 OR ENG 115 OR ENG 116	6
<input type="checkbox"/> B	Mathematical and Quantitative Reasoning MTH 30 Pre-Calculus Mathematics or MTH 23 ² Probability and Statistics	3-4
<input type="checkbox"/> C	Life and Physical Sciences PHY 11 College Physics I ³	4
Subtotal:		13-14

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

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

MAJOR REQUIREMENTS⁵

<input type="checkbox"/> ART 10 OR MUS 10	Art Survey OR Music Survey	1
<input type="checkbox"/> FYS 11 ⁶	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 ²	Free Elective	0-1
Subtotal:		36
TOTAL:		60