PATHWAYS
Cybersecurity and Networking (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[1] (4) ▸▸	☐ ENG 2[1] (4)

☐ RDL 1[1] (4) ▸▸	☐ RDL 2[1] (6)

☐ MTH 1[2] (4) ▸▸	☐ MTH 5[2] (6) ▸▸	☐ MTH 6 (6)

☐ CHM 2 (4)

GRADUATION REQUIREMENT

☐ GPA ≥ 2.0	☐ Writing Intensive 1	☐ Writing Intensive 2

FRESHMAN SEMINAR

☐ FYS 11[6]

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

[2] MTH 1/MTH 5 are no longer available. Students with Math Proficiency Index of 59 or lower may now enroll in corequisite course MTH 23.5. Students with 39 or lower MPI are strongly encouraged to enroll in Math Start/CUNY Start. Students planning to transfer to a four-year degree program are encouraged to take MTH 30 Pre-calculus. Students who take MTH 23/MTH 23.5 must also complete a one credit elective course.

[3]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.

[4]Reserved for students who have English remedial need, and enroll in ENG 110 as a corequisite.

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

[6]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

☐ A ☐ A	**English Composition I & II** ENG 100[1] **OR** ENG 110[1] **OR** ENG 111; **AND** ENG 112 **OR** ENG 113 **OR** ENG 114 **OR** ENG 115 **OR** ENG 116	6
☐ B	**Mathematical and Quantitative Reasoning** MTH 30 Pre-Calculus Mathematics **OR** MTH 23[2] **OR** MTH 23.5[2]	3-4
☐ 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)

☐ **D Individual and Society** COMM 11 Fundamentals of Interpersonal Communication	3
☐ **E Scientific World** PHY 12 College Physics II[3]	4
☐ **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 REQUIREMENTS[5]

☐ ART 10 **OR** MUS 10	Art Survey **OR** Music Survey	1
☐ FYS 11[6]	First Year Seminar	1
☐ PEA	Physical Education Activity Course	1
Cybersecurity/Networking Requirements		
☐ CSN 100	Introduction to Cybersecurity	3
☐ CSN 105	Computer Hardware and Software	3
☐ CSN 110	Network Fundamentals	3
☐ CSN 120	Network Switching and Routing	3
☐ CSN 130	Network Operating Systems I	3
☐ CSN 132	Network Operating Systems II	3
☐ CSN 140	Network Scripting	4
☐ CSN 150	Cybersecurity	4
☐ CSN 160	Ethical Hacking and Network Penetration Testing	3
☐ CSN 170	Internet and Cloud Computing	3
☐ CSN 190	Cybersecurity Project	1
☐ Free Elective[2]	Free Elective	0-1
	Subtotal:	**36**
	TOTAL:	**60**