Cybersecurity Degree Map | Associate of Applied Science

	Course	Category	Credits	Session
SEMESTER 1	CSF101 First Year Seminar for Computer Science	PC	2	I
	ENG101 English Composition I (or ENA101)	RC	3	I
	MAT115/117 College Algebra & Trigonometry (pre-req for MAC108)	RC	3	I
	Flexible Core Course (see back for more information)	FC	3	I
	MAC108 Programming with Python	PC	3	II

	Course	Category	Credits	Session
SEMESTER 2	ENG102 English Composition II	RC	3	I
	SCB Biology, SCC Chemistry or SCP Physics (Life and Physical Sciences)	RC	3	I
	MAC227 Introduction to Cryptography and Applications	PC	3	I
	MAC232 UNIX Network Operating Systems	PC	3	I
	MAC233 Windows NT Network Operating System	PC	3	I

	Course	Category	Credits	Session
SEMESTER 3	MAC237 Computer Security	PC	3	I
	MAC245 Data Communication and Network Security	PC	3	I
	MAC250 Database Management Systems	PC	3	I
	Flexible Core Course	FC	3	I
	BTM101 Intro. to Business or MAC290 Internship for Computer Majors	PC	3	II

	Course	Category	Credits	Session
SEMESTER 4	MAC257 Digital Forensics (Capstone)	PC	3	I
	MAC246 Advanced Network Security (may be taken with MAC257)	PC	3	I
	MAC247 Advanced Systems Security	PC	3	I
	MAC254 Advanced Operating Systems	PC	4	I
	Flexible Core Course (Urban Study)	FC	3	II
	Register for GRDOOO "Intent to Graduate" in CUNYfirst to apply for graduation in your final semester **Students must take at least one Urban Study course**			

**MAC246 and 257 may be taken together in the final semester. MAC257 has a pre-requisite of MAC237 and MAC246, but the pre-requisite of MAC246 may be waived by e-mailing the Program Director (mec_help@lagcc.cuny.edu)

To learn more about this major and possible transfer and career paths, visit here
Math, Engineering & Computer Science Department: mec_help@lagcc.cuny.edu | E-218 | 718-482-5631
Credits Required: Required Core (RC): 12 | Flexible Core (FC): 9 | Program Core (PC): 39 | **Total = 60**
Effective for the Fall 2024-Spring 2025 catalog | **Updated** January 4, 2024

Program Core (PC) and Pre/Co-requisites

The Program Core (PC) is the required set of major-specific courses. Refer to the Pre- and Co-requisite list below to ensure you register for the appropriate courses.

1. **BTM101** PRE: English proficiency
1. **CSF101** PRE: None
2. **MAC108** PRE: MAT115/MAT117/MAT119/MAT120 & P/C: English proficiency
3. **MAC232** PRE: English proficiency & P/C: MAC101 or 108
4. **MAC233** PRE: English proficiency & P/C: MAC101 or 108
5. **MAC245** PRE: MAC101 or MAC108
6. **MAC246** PRE: MAC245 & MAC232 or 233
7. **MAC254** PRE: MAC232 & 233
8. **MAC250** PRE: MAC101 or MAC108
9. **MAC227** PRE: MAT115/117 & P/C: MAC101 or 108
10. **MAC237** PRE: MAC227 & PRE/CO: MAC250
11. **MAC247** PRE: MAC237
12. **MAC257** PRE: MAC237 & 246*
13. **MAC290** PRE: ENG101 and at least 6 credits of MAC

*Pre-req of 246 may be waived for students also taking MA257 by contacting the Program Director

Pathways Requirements & Transfer

PATHWAYS REQUIRED CORE (RC) Pathways is CUNY's general education framework. For Required Core, students must take 2 English courses, 1 Mathematics and Quantitative Reasoning course, and 1 Life and Physical Sciences course. For more details, including a list of Life and Physical Sciences courses, visit the Pathways Required Core website.

MATHEMATICS AND QUANTITATIVE REASONING
Network Administration students should take MAT115/117 Algebra & Trigonmetry.

PATHWAYS FLEXIBLE CORE (FC) allows students to choose courses based on interests, transfer or career plans, or for general exploration. Associate of Applied Science students must take three courses from three separate categories listed below. View DegreeWorks or our Pathways website to see a full range of options, or talk with the program director or an advisor.

- Creative Expression
- Individual & Society
- Scientific World
- U.S. Experience in its Diversity
- World Cultures and Global Issues

TRANSFER AGREEMENTS The Cybersecurity program has an agreement with the following 4-year college. By graduating from LaGuardia and meeting certain requirements, you will be able to complete your studies at a 4-year college and earn a bachelor's degree. For more information, visit our Transfer Agreement (Articulation) web page.

1. St. John's – BS in Cybersecurity
    a. Note: this agreement is under review