

Network Administration & Information Security

Associate of Applied Science | Degree Map

Follow this map to graduate in two years, though other paths are possible. You must average 15 credits a semester to finish in two years. Contact an advisor for additional support, and see the back for more information.

	Course	PC = Program Core; RC = Required Core; FC = Flexible Core	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	I

	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				

Start planning now for what comes after graduation! Connect with [Transfer Services](#) and the [Center for Career & Professional Development](#). Also see the back of this map for more information on transfer.



Credits Required to Graduate

Category	Credits
Pathways Required Core (RC)	12
Pathways Flexible Core (FC)	9
Program Core (PC)	39
Total	60

More information at laguardia.edu/network-administration

Effective Fall 2022-Spring 2023 catalog. Updated: 3/18/2022

Follow the map for the catalog year in which you first enrolled.
Check Degree Audit & speak to an advisor for more support.

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.

Pre-requisite: A course which must be completed prior to taking another course

Co-requisite: A course which must be taken during the same session as another course.

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

Sequencing note

**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)

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 & Trigonometry.

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 Network Administration & Information Security 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. City Tech – B.Tech in Computer Systems