

# Computer Science

## Associate of 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 Algebra and Trigonometry (pre-requisite for MAT200)		RC	3	I
	SCB Biology, SCC Chemistry or SCP Physics (Life and Physical Sciences)		RC	3	I
	MAT200 Precalculus ( <b>Scientific World: pre-requisite for MAT201</b> )		FC	4	II

	Course	Category	Credits	Session
SEMESTER 2	ENG102 English Composition II	RC	3	I
	MAT201 Calculus ( <b>Scientific World: pre-requisite for MAT202</b> )	FC	4	I
	MAC101 Introduction to Computer Science	PC	3	I
	MAT231 Introduction to Discrete Math	PC	3	I
	MAC125 Advanced C/C++ Programming	PC	3	II

	Course	Category	Credits	Session
SEMESTER 3	MAT202 Calculus II	PC	4	I
	MAC281 Discrete Structures	PC	3	I
	MAC190 Object-Oriented Programming	PC	3	I
	Flexible Core Course (see back for more information)	FC	3	I
	Flexible Core Course	FC	3	II

	Course	Category	Credits	Session
SEMESTER 4	MAC286 Data Structures (Capstone)	PC	3	I
	MAC283 Computer Organization & Assembly Language	PC	3	I
	MAT210 Linear Algebra	PC	3	I
	Flexible Core Course (Urban Study)	FC	3	I
	Flexible Core Course	FC	3	II
<b>Register for GRDOOO "Intent to Graduate" in CUNYfirst to apply for graduation in your final semester</b> <b>Students must take at least one Urban Study course</b>				

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)	18
Program Core (PC)	30
<b>Total</b>	<b>60</b>

More information at [laguardia.edu/computerscience](http://laguardia.edu/computerscience)

Effective Fall 2018-Spring 2019 catalog. Updated: 4/12/2022

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.

### Pathways Flexible Core

1. MAT200 PRE: MAT115/117
2. MAT201 PRE: MAT200

### Program Core

1. CSF101 PRE: None
2. MAT231 PRE: English Proficiency & P/C: MAT201
3. MAT202 PRE: MAT201
4. MAC101 PRE: MAT200 & P/C: English Proficiency
5. MAC125 PRE: MAC101
6. MAC190 PRE: MAC101/MAC108
7. MAC281 PRE: MAC101 & MAT231
8. MAC283 PRE: MAC101/MAC109
9. MAC286 PRE: MAC190 & P/C: MAC281
10. MAT210 PRE: MAT 201/242

## John Jay Dual Enrollment

Computer Science is a “dual enrollment” program. Once students complete their studies at LaGuardia, they will have the opportunity to transition to John Jay as third year students in pursuit of a bachelor’s degree. For more information on the dual enrollment Justice Academy program, [see here](#).

## 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

Computer Science students must take MAT115/117 Algebra & Trigonometry, or highest math they place into.

PATHWAYS FLEXIBLE CORE (FC) allows students to choose courses based on interests, transfer or career plans, or for general exploration. Associate of Science students must take one course from each category listed below, plus an additional course from any category. View DegreeWorks or our [Pathways website](#) to see a full range of options, or talk with the program director or an advisor. Note: your program has specific requirements listed below.

- Creative Expression
- Individual & Society
- Scientific World: MAT200 Pre-calculus required
- U.S. Experience in its Diversity
- World Cultures and Global Issues
- Additional Scientific World: MAT201 Calculus I required

TRANSFER AGEEMENTS The Computer Science program has an agreement with the following 4-year colleges. 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. John Jay College – BS in Computer Science & Information Security (dual enrollment)
2. City Tech – B.Tech in Computer Systems