

# Liberal Arts: Math & Science – Applied Math 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	Liberal Arts Math & Science First Year Learning Community (see back)			3	I
	- LMF101 First Year Seminar for Liberal Arts: Math and Science		PC	3	I
	- ENG101 English Composition I (or ENA101)		RC	3	I
	- MAT115 Algebra and Trigonometry (or MAT117) (pre-req for MAT200)		RC	3	I
	Flexible Core Course (see back for more information)		FC	3	I
	MAT200 Precalculus ( <b>Scientific World: pre-req for MAT201</b> )		FC	4	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
	MAT201 Calculus I ( <b>Scientific World: pre-req for MAT202</b> )	FC	4	I
	MAC101 Introduction to Computer Science	PC	3	I
	Flexible Core Course	FC	3	II

	Course	Category	Credits	Session
SEMESTER 3	MAT202 Calculus II	PC	4	I
	MAT210 Linear Algebra	PC	3	I
	Unrestricted Elective: 1-2 credits required but may need 3 credit option	PC	2	I
	Flexible Core Course (Urban Study)	FC	3	I
	Flexible Core Course	FC	3	II

	Course	Category	Credits	Session
SEMESTER 4	LIB200 Humanism, Science & Technology (Capstone)	PC	3	I
	MAT203 Calculus III	PC	4	I
	MAT231 Introduction to Discrete Math	PC	3	I
	MAC190 Object-Oriented Programming	PC	3	I
	<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	
Pathways Required Core (RC)	12
Pathways Flexible Core (FC)	20
Program Core (PC)	28
<b>Total</b>	<b>60</b>

More information at [laguardia.edu/applied-math](http://laguardia.edu/applied-math)

Effective Fall 2020-Spring 2021 catalog. Updated: 5/2/2022

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. MAT200 PRE: MAT115/117
2. MAT201 PRE: MAT200
3. MAC101 PRE: MAT200&P/C: English Proficiency
4. MAT202 PRE: MAT201
5. MAT210 PRE: MAT201
6. LIB200 PRE: ENG102&103 & P/C:  
MAT107/115/117/119/120
7. MAT203 PRE: MAT202
8. MAT231 PRE: English Proficiency & P/C: MAT201
9. MAC190 PRE: MAC101

## Learning Communities

All Liberal Arts students, especially in the first semester, are highly encouraged to enroll in a learning community.

For more information:

<https://www.laguardia.edu/clusters/>

## 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 Liberal Arts: Applied Math students should take MAT115/117 Algebra and Trigonometry unless placing into a higher level of math.

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 Precalculus required
- U.S. Experience in its Diversity
- World Cultures and Global Issues
- Additional (Scientific World: MAT201 Calculus I required

TRANSFER AGREEMENTS The Applied Math 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. John Jay – BS in Applied Math: Data Science & Cryptography