Liberal Arts: Math & 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	Math & Science First Year Learning Community (see back)			
	- LMF101 First Year Seminar for Liberal Arts: Math and Science	PC	3	I
	- ENG101 English Composition I (or ENA101)	RC	3	I
	- MAT115/117 Algebra & Trigonometry (pre-req for MAT200)	RC	3	I
	Humanities Course	PC	3	I
	Flexible Core Course (see back for more information)	FC	3	II

	Course	Category	Credits	Session
SEMESTER 2	ENG102 Writing through Literature or ENG259 Technical Writing	RC	3	I
	SCB201, SCC201, SCP201 or SCP231 (Life and Physical Sciences)	RC	4	I
	MAT200 Precalculus (Scientific World: pre-req for MAT201)	FC	4	I
	Flexible Core Course	FC	3	I
	Unrestricted Elective: 1 credit needed if taking MAT120 and not 201	PC	0-1	II

	Course	Category	Credits	Session
SEMESTER 3	MAT201 Calculus I or MAT120 Statistics I	PC	3-4	I
	SCB202, SCC202, SCP202 or SCP232 (Scientific World)	FC	4	I
	Math or Science Elective (see back)	PC	4	I
	Flexible Core Course (Urban Study)	FC	3	I
	Social Science Course	PC	3	II

	Course	Category	Credits	Session
SEMESTER 4	LIB200 Humanism, Science & Technology (Capstone)	PC	3	I
	Math or Science Elective (see back)	PC	4	I
	Math or Science Elective (see back)	PC	4	I
	Flexible Core Course	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.

LaGuardia Community College

Credits Required to Graduate	
Category	
Pathways Required Core (RC)	13
Pathways Flexible Core (FC)	19
Program Core (PC)	28
Total	60

More information at laguardia.edu/MathScience

Effective Fall 2022-Spring 2023 catalog. Updated: 2/18/2022

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. MAT200 PRE: MAT 115/117
2. MAT201 PRE: MAT200
3. LIB200 PRE: ENG102&103 & P/C: MAT107/115/117/119/120 (ENG103 waived for Liberal Arts: Math and Science students)
4. SCP231 PRE: MAT201

For a full list of pre and co-requisites, view CUNY First or the College Catalogue

Program Core Courses

Math/Science Electives (11-12 credits) Students are advised to complete science sequences to ensure course-to-course transfer to 4-year colleges. Select three to four courses from the following:

Mathematics: **MAT120** Elementary Statistics I; **MAT121** Elementary Statistics II; **MAT201** Calculus (STEM); **MAT202** Calculus II (STEM); **MAT203** Calculus III (STEM); **MAT204** Elementary Differential Equations; **MAT210** Linear Algebra; **MAT212** Linear Algebra and Vector Analysis; **MAT221** Introduction to Probability; **MAT231** Introduction to Discrete Math

Biology: **SCB115** Principles of Biology; **SCB201** General Biology I; **SCB202** General Biology II; **SCB203** Human Anatomy and Physiology I; **SCB204** Human Anatomy and Physiology II; **SCB208** Vertebrae Anatomy and Physiology I; **SCB209** Vertebrae Anatomy and Physiology II; **SCB252** Fundamentals of Biotechniques; SCB255 Cell Biology; **SCB260** General Microbiology; **SCB265** Ecology

Chemistry: **SCC201** General Chemistry I; **SCC202** General Chemistry II; **SCC251** Organic Chemistry I; **SCC252** Organic Chemistry II

Geography: **SCG120** Introduction to Oceanography; **SCG150** Introduction to Geographic Information Systems

Physics: **SCP201** Fundamentals of Physics I; **SCP202** Fundamentals of Physics II; **SCP231** General Physics I; **SCP232** General Physics II; **SCP233** Intro to Modern Physics

Experiential Learning: **SCI204** Research in Natural Sciences; **LIB204** Experiential Learning in Liberal Arts

Pathways Requirements & Transfer

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 REQUIRED CORE 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, visit the Pathways Required Core website.

LIFE AND PHYSICAL SCIENCES This program requires you to take Fundamentals in Biology (SCB201), Chemistry (SCC201) or Physics (SCP201); or General Physics I (SCP231).

PATHWAYS FLEXIBLE CORE 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 required**
- U.S. Experience in its Diversity
- World Cultures and Global Issues
- Additional (Scientific World): **Second Biology, Chemistry or Physics course required – SCB202, SCC202, SCP202 (Fundamentals) or SCP232 (General Physics) (note: students must first complete Calculus I to take General Physics)**

TRANSFER Students who complete the Liberal Arts: Math and Science program at LaGuardia typically transfer to 4-year colleges to complete BA or BS degrees in Natural Sciences fields such as Biology, Chemistry, or Physics, or Mathematics, or Pre-Med and Clinical Health programs.