

Liberal Arts: Math & Science Degree Map | Associate of Science

	Course	Category	Credits	Session
SEMESTER 1	<u>Math & Science First Year Learning Community (see back)</u>			
	- 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/Social Sciences Course	PC	3	I
	Flexible Core Course (see back)	FC	3	II

	Course	Category	Credits	Session
SEMESTER 2	ENG102 Writing through Literature or ENG259 Technical Writing	RC	3	I
	Biology, Chemistry or Physics I - SCB201, SCC201, SCP201 or SCP231	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
	LIN150 Integrative Research Methods	PC	3	I
	Biology, Chemistry or Physics II - SCB202, SCC202, SCP202 or SCP232	FC	4	I
	Math or Science Elective (see back)	PC	4	I
	Flexible Core Course	FC	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 GRD000 "Intent to Graduate" in CUNYfirst to apply for graduation in your final semester Students must take at least one Urban Study course (LIN150 meets this requirement)				



To learn more about this major and possible transfer and career paths, [visit here](#)

Liberal Arts Department: LiberalArts@Lagcc.cuny.edu

Credits Required: Required Core (RC): 13 | Flexible Core (FC): 19 | Program Core (PC): 28 | **Total = 60**

Effective for the Fall 2024-Spring 2025 catalog | **Updated** January 8, 2024

Pre/Co-requisite Information

1. MAT200 PRE: MAT 115/117
2. MAT201 PRE: MAT200
3. LIN150 PRE: LIF101 or LMF101 and 24 credits
4. LIB200 PRE: ENG102&103 & P/C:
MAT107/115/117/119/120 (ENG103 waived for
Liberal Arts: Math and Science students)
5. SCP231 PRE: MAT201

For a full list of pre and co-requisites, view Schedule Builder or the [catalog](#)

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; **MAT202** Calculus II; **MAT203** Calculus III; **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 General Biology I (SCB201), General Chemistry I (SCC201), Fundamentals of Physics I (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 or SCP232 (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.