

Biology Program

What's a realistic three-year path to success for Biology students? What "benchmark" courses do successful students take at key points in their LaGuardia journey? What's a good mixture of courses in the major and courses in CUNY Pathways, early and late? What courses should students take to gather momentum and build towards success?

To help students, faculty, advising staff and peer mentors, the chart below identifies key courses that Biology students should complete by the end of each year in order to graduate. The path includes courses in the Program Core (taught by Science faculty) as well as courses in the CUNY Pathways Required and Flexible Core. The sequence is recommended, students can take additional courses, as long they fulfill the pre-requisites. Key Benchmark Courses for each year are in **Bold**.

YEAR	PROGRAM CORE	Rationale	PATHWAYS CORE	Rationale
<p>Year I. Complete a total of at least 15 credits</p> <p>Program Core (9 credits) + Basic Skills & Pathways (6 credits)</p>	<p>NSF101: First Year Seminar (2cr)</p>	<p>FYS course; students should take in very first semester at College.</p>	<p>Reading, Writing and Mathematics Basic Skills (if needed; 0cr)</p> <p>ENG 101 English Composition I (3 cr) Students placed in ENA 101 or ENC 101 will satisfy basic skills <u>and</u> ENG101 requirements.</p> <p>ENG102: Composition II: Writing through Literature (3cr) <i>Prerequisite: ENA/ENC/ENG101</i></p> <p>MAT115: College Algebra Trigonometry (3cr) or MAT117: Algebra & Trigonometry (3cr)</p> <p>SCB201: General Biology I (4cr) <i>Prerequisite: ESA/ENA/ENG99, MAT096, CSE099</i></p>	<p>Students <u>must</u> satisfy Reading, Writing & Math Basic Skills requirements to prepare and qualify many credit-bearing courses. <i>DegreeWorks indicates the basic skills courses a student must take.</i></p> <p>Builds written communication, helping strengthen students writing skills needed for other courses. Satisfies English requirement of Pathways Required Core</p> <p>Builds written communication and Inquiry. Satisfies English Requirement of Pathways Required Core.</p> <p>Satisfies the Mathematical and Quantitative Reasoning requirement of Pathways Required Core.</p> <p>Satisfies Life and Physical Sciences requirement of Pathways Required Core.</p>
YEAR	PROGRAM CORE	Rationale	PATHWAYS CORE	Rationale

<p>Year II. Complete at least 20 additional credits, to reach a total of 35.</p> <p>Program core (10 credits) + Pathways (12-13 credits)</p>	<p>SCC201: General Chemistry I (4cr) <i>Prerequisite: ENG99 and CSE99 or exemption and MAT115**</i></p> <p>SCC202: General Chemistry II (4cr) <i>Prerequisite: SCC201</i></p>	<p>SCC201 and 202 need to be taken so in Year 3 Organic Chemistry can be taken (currently only offered in 12 week session).</p> <p>Depending on the student's strength in sciences, a student can take SCC201 in session I and SCC202 in session II so they can be ready to take SCC251 in the next 12 week session.</p>	<p>SCB202: General Biology II (4 cr) Pre-requisite: SCB201</p> <p>SCN194: AIDS/HIV, Science & Society (3 cr) Pre-requisite: ESA/ENC/ENG101, MAT96.</p> <p>HUC106: Public Speaking (3 cr) Pre-requisite: CSE99, ENA/ENG/ESA099, ENA/ENC101</p> <p>Unrestricted elective MAT200: Precalculus (4 cr) Pre-requisite: MAT115 or MAT117</p>	<p>Satisfies Scientific World requirement of Pathways Flexible Core.</p> <p>Satisfies World Culture & Global issues requirement of Pathways Flexible Core.</p> <p>Satisfies Creative Expression requirement of Pathways Flexible Core.</p> <p>At 4-yr college students will need calculus so it's best to take MAT200 at LAGCC. Take as an unrestricted elective.</p>
YEAR	PROGRAM CORE	Rationale	PATHWAYS CORE	Rationale
<p>Year III. Complete at least 25 additional credits to reach total of 60.</p> <p>Program Core (11 credits) + Pathways Core (12-13 credits)</p>	<p>SCC251: Organic Chemistry I (5 cr) Pre-requisite: SCC202</p> <p>SCC252: Organic Chemistry II (5 cr) Pre-requisite: SCC251</p> <p>SCB252: Fundamentals of Biotechniques (3 cr) Pre-requisite: MAT115, ENG101, SCB201, SCC201</p> <p>SCB255: Cell Biology (4 cr) Pre-requisite: ENG102, SCB202, SCC202, SCB252</p>	<p>SCB252 can be taken in Year 2 if all pre-req have been met. SCC251 and 252 only in 12 week sessions.</p> <p>Capstone course: Should be taken either in second to last or last semester before graduation.</p>	<p>US Experience & Diversity Flexible Core (3cr)</p> <p>Individual & Society Flexible Core (3cr) Select any course</p> <p>Additional Flexible Common Core (3cr)</p>	<p>If the student did not take SCN194 than one of these flexible core courses needs to be an urban study.</p> <p>Select a course from the Individual and Society list on your DegreeWorks.</p> <p>Additional Flexible Common Core requirement of Pathways Flexible Core. Select a course from the list on your DegreeWorks.</p>

