

Science Course Progression (Updated for 2024-25)

Year in School	Science Class Options (See AHS Curriculum Guide for specific pre-requisite information & class descriptions)		
Freshman	<ul style="list-style-type: none"> Science 9 Science 9 / Biology Accelerated Block 		
Sophomore	<ul style="list-style-type: none"> Biology Biology Accelerated 	Some sophomores “double up” by taking Biology and one of these courses:	
		Chemistry or Chemistry Accelerated (must be in Advanced Algebra or AMS II)	Physics or Engineering & Mechanics (must be in Advanced Algebra or AMS II) or AP Physics 1 (must be in Functions or beyond)
Junior/Senior Core Science Courses	Environmental Biology (two different semester-long courses)	Chemistry or Chemistry Accelerated (must be in Advanced Algebra)	Physics (Advanced Algebra), Engineering & Mechanics (Adv. Alg.), or AP Physics 1 (Functions)
Junior/Senior Electives (Be sure to check math pre-requisites)	• Anatomy and Physiology	College-level human anatomy and physiology course	
	• Biotechnology	Life processes and the tools and techniques used to study them	
	• Chemistry for the Health Sciences	Applications of chemistry from the health fields	
	• Engineering & Mechanics	Integrated science and engineering course combining Physics and POE	
	• Landscape Ecology	The study of plants in relation to their environment	
	• Science, Technology, Society (STS)	Two different semester courses that study science through problem-solving	
	• Physics of Electronics	Year-long course that focuses on electricity, circuits, and digital logic	
	• Zoology	College-level course focused on animal biology	
	• AP Biology	Equivalent to an introductory college biology course	
	• AP Chemistry	Equivalent to an introductory college chemistry course	
	• AP Physics 2	Algebra-based physics course that explores a variety of topics	
• AP Physics C	Calculus-based, college-level course studying mechanics, electricity, and magnetism		

AHS Graduation Requirements for Science

- 3 years of Science totaling 6 Semester Credits (1 year of physical science and 1 year of life science)
- Many colleges recommend 4 years of Science (8 Semester Credits)
- Many highly competitive 4-year universities and colleges recommend completion of chemistry and/or physics. Students must meet the math pre-requisites to enroll in these courses.