

Science Course Sequences and Graduation Requirements – SY2526

Considerations for Standard and Advanced Diploma:

Students working for the 22 credit (standard) diploma must have three credits (one verified) from two different areas: biological science, chemical science, earth science, and physical science.

Students working for the 26 credit (advanced) diploma must have four credits (one verified) from three different areas: biological science, chemical science, earth science, and physical science.

****AP Computer Science A can be used to meet a science graduation credit for standard or advanced diplomas; however, it cannot be counted towards the science discipline requirement**

Considerations for Physics: AP Schools

Algebra-based physics

Physics 1	AP Physics 1	AP Physics 2
Open to grades 11,12	Open to grades 11,12	Open to grades 12
No external exam	External exam (1 semester college credit possible)	External exam (1 semester college credit possible)
No point (GPA)	+1.0 point (GPA)	+1.0 point (GPA)
Pre-Req of Geometry	Pre-Req of Algebra 2	Pre-Req of AP Physics 1
Scientific investigation, nature of science, motion, forces, energy, waves, fields, circuits, and non-Newtonian topics	Similar depth and mathematical rigor (Algebra based) to Physics 1 HN. Equivalent of a first-semester introductory college course.	Second course in Algebra-based Physics sequence. Extended topics such as thermodynamics and optics.
none	none	none

Calculus-based physics courses:

AP Phy C - Mech
Open to grades 11,12
1 External exam (1 semester college credit possible)
1 credit yearlong class
+1.0 point (GPA)
Co-Req of AB or BC AP Calculus
Prerequisite Chemistry
Advanced Physics topics in only Mechanics using Calculus

Recommended Course Pathway

