

AACPS STEM High School Program

STEM Magnet High School Program - Required Courses

Science - 4.0 credits minimum/5.0 credits recommended (Science course in all four years of high school)

Note: Recommended
AACC courses to support
STEM/BMAH students
are noted in additional
document.
Students also need to
complete all courses in
their chosen STEM
pathway of study.

			pathway of study.
	Systems Science A (1.5 Credits)	Systems Science B (1.5 Credits)	
	Science Research III (0.5 credit)	Honors or AP Science Course (1.0 Credit) or AACC Science or E	ngineering Course
Math - 4.0 credits minimum/6.0 credits recommended (Math course in all four years of high school)			
	Geometry (1.0 credit) Algebra I (1.0 credit)		
	Honors or AP Pre-Calculus (1.0 credit)	or BC (1.0 credit) AACC Math course beyond Algebra II	(dual credit, if needed)
Problem/Project-Based Learning – 2.5 credits minimum (PBL course in all four years of high school)			
	Global Community Citizenship through PBL I (0.5 credit	PBL II (0.5 credit) PBL III (0.5 credit)	
	PBL IV Research Data Analysis - Capstone (1.0 credit) - for Non-engineering STEM students		
	PBL IV Engineering Design & Innovation - Capstone (1.0 credit) - for Engineering STEM students at NCHS only		
	EDD – Capstone (1.0 credit) - for Engineering STEM students at SRHS only		
Engineering, Computer Science, & Technology Education - 1.0 credit minimum			
	AP Computer Science Principles (1.0 credit)	Principles of Engineering - IED (PLTW) (1.0 credit) -Engineering s	tudents at SRHS only

English - 4.0 credits minimum (English course in all four years of high school)			
Honors or AP English Course - Grade9 (1.0 credit) Honors or AP English Course - Grade 10 (1.0 credit)			
Honors or AP English Course - Grade 11 (1.0 credit) Honors or AP English Course - Grade 12 (1.0 credit) AACC English Course (as dual credit, if needed for high school graduation)			
Social Studies - 4.0 credits minimum (Social Studies course in all four years of high school)			
Honors US History Hybrid (1.0 credit) Honors or AP World History (1.0 credit) AP Human Geography (1.0 Credit) AACC Social Science Course (1.0 credit)			
World Language - 3.0 credits minimum (in the same language)			
World Language Level I World Language Level II World Language Level III AACC World Language course beyond Level II (dual credit, if needed) NOTE: ASL courses may be taken as electives but not as the main WL courses.			
Physical Education/Health - 2.0 credits minimum			
Fitness for Life (0.5 credit) Phys Ed (PE) Elective (0.5 credit) Health A (0.5 credit) Health B (0.5 credit)			
Fine Arts - 1.0 credit minimum			
Foundations of Art (0.5 credit) Digital Photography (0.5 credit) NOTE: A Music course (0.5 credits) may be substituted for an Art course.			
Business Education - 1.0 Credit minimum			
STEM/ BMAH Internship or apprenticeship (1.0 credit)			

NOTE: Please work with your School Counselor to make sure you meet all STEM Program Requirements while also taking additional AACPS elective courses required for graduation. As you enroll in AACC courses, make sure you know which ones you need to take as 'dual credit' courses for high school graduation.