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.


Systems Science A (1.5 Credits)
$\square$ Science Research III ( 0.5 credit)
$\square$ Systems Science B (1.5 Credits)
$\square$ Honors or AP Science Course (1.0 Credit) or AACC Science or Engineering Course

Math - 4.0 credits minimum/6.0 credits recommended (Math course in all four years of high school)


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\square \mp@code { H o n o r s ~ o r ~ A P ~ P r e - C a l c u l u s ~ ( 1 . 0 ~ c r e d i t ) ~ \square ~ A P ~ C a l c u l u s ~ A B ~ o r ~ B C ~ ( 1 . 0 ~ c r e d i t ) ~ \square ~ A A C C ~ M a t h ~ c o u r s e ~ b e y o n d ~ A l g e b r a ~ I I ~ ( d u a l ~ c r e d i t , ~ i f ~ n e e d e d ) }
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Problem/Project-Based Learning - $\mathbf{2 . 5}$ credits minimum (PBL course in all four years of high school)

$\square$ PBL IV Research Data Analysis - Capstone (1.0 credit) - for Non-engineering STEM students
$\square$ PBL IV Engineering Design \& Innovation - Capstone (1.0 credit) - for Engineering STEM students at NCHS only
$\square$ EDD - Capstone ( 1.0 credit) - for Engineering STEM students at SRHS only
Engineering, Computer Science, \& Technology Education - 1.0 credit minimum
$\square$ AP Comp Sci Princip or AP Comp Sci A (1.0 credit)
$\square$ STEM Into to Engineering Design - IED (PLTW) or CAD1/CAD2 (1.0 credit)

English - 4.0 credits minimum (English course in all four years of high school)
$\square$ Honors or AP English Course - Grade9 (1.0 credit) $\square$ Honors or AP English Course - Grade 10 ( 1.0 credit)
$\square$ Honors or AP English Course - Grade 11 (1.0 credit) $\square$ Honors or AP English Course - Grade 12 ( 1.0 credit)
$\square$ 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)

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\square \mp@code { H o n o r s ~ U S ~ H i s t o r y ~ H y b r i d ~ ( 1 . 0 ~ c r e d i t ) }
\squareHonors or AP World History (1.0 credit)
\square Honors or AP US Government (1.0 credit)
\square AP Human Geography (1.0 Credit) ■ AACC Social Science Course (1.0 credit)
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## World Language - 3.0 credits minimum (in the same language)

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\squareWorld Language Level I \ World Language Level II ■ World Language Level III
\(\square\) 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.
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## Physical Education/Health - 2.0 credits minimum

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\square Fitness for Life (0.5 credit) \Gamma
Phys Ed (PE) Elective (0.5 credit)
 Health A (0.5 credit)
| Health B (0.5 credit)
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## Fine Arts - 1.0 credit minimum

$\square$ 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

$\square$ 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.

