

MSDE vs STEM Credit Requirements

Subject Area	MSDE Credit Requirement	STEM/BMAH Credit Requirement
English	4 credits	4 credits <ul style="list-style-type: none"> English 9, 10, 11, 12 (honors or AP)
Mathematics	3 credits <ul style="list-style-type: none"> 1 Algebra/Data Analysis 1 Geometry 1 additional math credit 	4 credits <ul style="list-style-type: none"> math courses must be taken every semester of high school
Science	3 credits <ul style="list-style-type: none"> 1 Biology 2 that include laboratory experience in any of the following areas: earth science, life science or physical science 	5.5 credits at SRHS <ul style="list-style-type: none"> 3.0 credits in Systems Science A and B 0.5 credits in Science Research III science courses must be taken every semester of high school
Social Studies	3 credits <ul style="list-style-type: none"> US History World History Local, State and National Government 	4.5 credits for STEM <ul style="list-style-type: none"> 1 credit US History 1 credit US Government 1 credit World History 1 credit AP Human Geography 0.5 credit STEM Policy 5 for BMAH <ul style="list-style-type: none"> 1 credit US History 1 credit US Government 1 credit World History 1 credit AP Human Geography 0.5 Social Issues 0.5 credit STEM Policy
Fine Arts	1 credit	1 credit <ul style="list-style-type: none"> 0.5 credit STEM Foundations of Art 0.5 STEM 2D (optional STEM Photo Digital)
Physical Education	0.5 credit	0.5 credit
Health	0.5 credit	0.5 credit
Technology Education	1 credit	1 credit <ul style="list-style-type: none"> STEM Foundations of Technology, Principles of Engineering or Engineering Principles

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Foreign Language	2credits	3 credits (highly recommend 4 credits)
Computer Science	N/A	1 credit <ul style="list-style-type: none"> • Counts as a Mathematics credit
Problem-Based Learning	N/A	2.5 credits <ul style="list-style-type: none"> • 0.5 credit PBL I or Medical Rounds I • 0.5 credit PBL II or Medical Rounds II • 0.5 credit PBL Community Challenge (PBL III) • 1 credit Pathway Capstone Course (also included in the STEM-themed Pathway)
STEM Themed Pathway	N/A	1 credit <ul style="list-style-type: none"> • 1 credit for each STEM Themed Pathway course

The STEM/BMAH programs are cutting edge programs and as research and technologies evolve, courses, course sequence and course content will be aligned to take advantage of these trends. In addition, all Magnet programs are subject to annual budget approval.

This is a four year program of study. Students are expected to commit to the entire 4 years. Exiting the program is allowable only in extenuating circumstances. If students exit the program, they must return to their home school.