The Science and Mathematics
Academy is a school-within-a-school
magnet program serving students
residing in Harford County.

Participation in this rigorous, four-year program is by competitive application and is based on:

- prior academic success
- interest and motivation in science and mathematics
- teacher recommendations
- written communication skills
- Mathematics and Science assessment results

Students apply for admission during the fall of their eighth-grade year and are notified of their final admission status in March.



To learn more about the program or the application process, please contact:

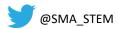
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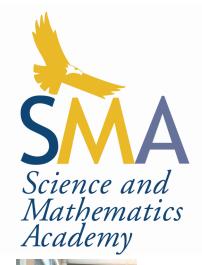




Visit us on the web at www.scienceandmathacademy.com

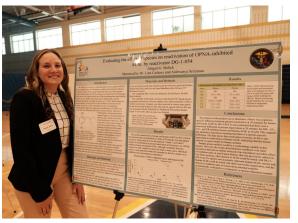


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Advancing Education. Enhancing Futures.

The Science and Mathematics Academy (SMA) offers young scholars challenging coursework which integrates science, technology, engineering, and mathematics and emphasizes research and real-world application. SMA students take a majority of their courses at the honors level with other members of the SMA. Students are able to take a variety of Advanced Placement courses in science and mathematics, as well as a large selection of elective courses.

Exclusive to the SMA is a four-year, sequenced series of courses called Science, Research, and Technology (SRT I-IV). SRT allows each student to discover and pursue their unique area of interest. Using the tools, techniques, and valid protocol inherent in scientific research, students develop critical thinking and creative problem solving skills. Regular contact with practicing scientists, engineers, and mathematicians is provided throughout the program. SRT culminates in a year-long capstone project under the mentorship of a professional scientist, mathematician, or engineer. The capstone project concludes with a detailed, scientific poster and a presentation to peers, faculty, parents, and mentors.

In order to complete the program and receive certification as a graduate of the SMA, the following requirements must be successfully met:

- At least one Advanced Placement SMA Mathematics class in addition to SMA AP Statistics
- At least one Advanced Placement SMA
 Science class in addition to SMA AP
 Environmental Science and SMA AP Physics:
 Mechanics
- 3 SMA semester electives (1.5 credits)
- Science, Research, and Technology (SRT) I –
 IV. In addition, SRT IV must be completed
 during the student's senior year which runs
 from August through May (school year).

Four Year Course of Study

9th Grade Class Schedule

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10th Grade Schedule

SMA Functions, Statistics & Trigonometry1.0
SMA AP Statistics1.0
SMA Honors Chemistry1.0
Science, Research, and Technology 21.0
Honors English 101.0
World History or AP World History1.0
Physical Education or Fine Arts1.0
Foreign Language1.0
Total Annual Credits8.0

SMA Semester Electives:

Biotechnology	Robotics
Pre-engineering	Linear Algebra
Microcontrollers	Cryptology
Algorithm	Mathematical Logic
Development	Astrophysics
Organic Chemistry	Statistics using R
Research Methods in	Design Engineering
STEM	Biochemistry
Ecology	Kinesiology

11th Grade Class Schedule

SMA AP Calculus AB1.0
SMA AP Physics: Mechanics1.0
Science, Research, and Technology 3 1.0
SMA Semester Electives 1.0
English 11 or AP English 111.0
U.S. or AP U.S. History1.0
Electives of Choice (AP Math, AP Science,
Foreign Language, Music/Art, etc.)2.0
Total Annual Credits8.0
12th Grade Schedule
12th Grade Schedule
12th Grade Schedule SMA AP Science or Mathematics
SMA AP Science or Mathematics 1.0
SMA AP Science or Mathematics
SMA AP Science or Mathematics 1.0 Science, Research, and Technology 4 2.0 (Year-long Senior Capstone Project)
SMA AP Science or Mathematics
SMA AP Science or Mathematics
SMA AP Science or Mathematics



Member of the National Consortium of Secondary STEM Schools

Total Cumulative Credits......32.0