



BMAH MAGNET HIGH SCHOOL PROGRAM OF STUDY AND PROGRAM REQUIREMENTS

FOR GBHS STUDENTS ENTERING GRADE 9 IN THE 2015-2016 SCHOOL YEAR:

MINIMUM Course Credit BMAH Program Graduation Requirements:

- English – 4.0 credits (Honors or AP Level Grades 9-12)
- Social Studies – 4.0 credits (Social Issues- 0.5 credit, STEM Policy- 0.5 credit, Honors US History Hybrid- 1.0 credit, Honors US Government Hybrid-1.0 credit, Honors or AP World History- 1.0 credit)
- Science – 4.5 credits (Honors BMAH Biology- 1.0 credit; Honors BMAH Chemistry- 1.0 credit; Honors BMAH Physics- 1.0 credit; AP or other honors science- 1.0 credit; Science Research III- 0.5 credit) Science must be taken every year.
- Math – 4.0 credits (Honors or AP Level Grades 9-12, preferably through the Calculus level) Math must be taken every year.
- Physical Education –1.0 credits (Fitness for Life- 0.5 credit, PE Elective- 0.5 credit)
- Health – 0.5 credit
- Technology Education – 1.0 credit (PLTW POE)
- Foreign Language – 3.0 credits in the same language to show a sequence. Recommend 4.0 credits
- Art – 1.0 credit (Fundamentals of Design- 0.5 credit, Studio 2D Art- 0.5 credit)
- Elective Credits-1.5 credits (Medical Rounds Explorations I & II/Community Challenge Course Sequence)
- BMAH Pathway of Study– 3.0 credits (Pathway I, Pathway II, Capstone)
- Business Education – 1.0 credit (BMAH Internship)

OTHER BMAH PROGRAM GRADUATION REQUIREMENTS AND CONSIDERATIONS:

- Mandatory Summer Bridge Programs – Entering Grade 9: 8 days; Entering Grade 10: 4 days; Entering Grade 11: 4 days
- Mandatory Summer Reading Assignments – Entering Grades 9 - 12
- Participation in TWO BMAH-related competitions
- Students and Families must attend approximately 4-6 BMAH Family Night Events per school year. These events occur in the evenings.
- Mandatory successful participation and completion of the BMAH Job Shadowing Program
- Mandatory successful completion of a BMAH Internship (Summer after Grade 11 or Fall of Grade 12)
- Students are expected to carry a FULL COURSE SCHEDULE AT THE BMAH SCHOOL, IN THE BMAH PROGRAM for all four years of high school. Students do have the opportunity to complete their internship during the fall semester of Grade 12 during the school day if scheduling allows.
- Students must maintain a 2.8 GPA and maintain good citizenship to remain in the BMAH Program. Students will be placed on academic probation and/or good citizen contracts if they are not maintaining these standards and then be exited from the program.
- Students exiting the magnet program MUST return to their home school.



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. This is a four year program of study and 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.



ANNE ARUNDEL
COUNTY PUBLIC SCHOOLS



Addition Notes:

AFTER-HOURS COURSE OFFERINGS:

Walking Wellness, Fitness for Life, Health, AP Writing Seminar

GRADE 9 NOTES

Note1: All BMAH students will take Honors BMAH Biology. This course is a problem-solving course where the labs are focused on visible phenomena (supports STEM culture of inquiry-based problem solving)

GRADE 10 NOTES

Note1: All BMAH students will take Honors BMAH Chemistry. This course is an accelerated honors Chemistry course where numerous team-focused inquiry-based labs and career awareness are heavily woven into the flow of the course (supports BMAH culture of teamwork and 21st century career focus). Arguably, students can take AP Biology, but we've reserved the AP courses in the sciences for the last two years of high school so as to use the early science courses to provide rigor through relevance and establish the targeted BMAH culture we set out to establish.

GRADE 11 NOTES

Note1: PBL Community Challenge is a semesterized course where teams of students work on real-world interdisciplinary challenges in collaboration with someone from the community who "owns" the problem/challenge. It is a real challenge that requires a real solution. It is combined with STEM Policy and Science Research III and runs for one semester only.

Grade 12 Notes:

Note1: All students in the BMAH Magnet HS take Science and Math every year regardless of the number of science and math credits earned in Middle School. BMAH students are required to take Science and Math each year not just the 3 credits required by the State of Maryland.

Note2: All students will have the opportunity to engage in exciting non-traditional STEM electives or electives from the comprehensive high school in their senior year if a day-internship is not chosen.

Note3: Mandatory monthly evening meetings will be held for all seniors.

Note4: Independent Research Laboratory Course will be available to interested students through After-Hours School.

Note5: AP Science Course or other Lab Science is most likely AP Physics, AP Environmental Science, iLab, etc.



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. This is a four year program of study and 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.



ANNE ARUNDEL
COUNTY PUBLIC SCHOOLS



BMAH MAGNET HIGH SCHOOL PROGRAMS OF STUDY

GRADE 9- **SAMPLE** Schedule

NOTE: [BMAH] denotes a course for which students are cohorted.

<i>Summer I</i>	
<ul style="list-style-type: none"> • <i>Bridge I experience for Rising 9th Graders Accepted into BMAH Magnet High School – 2 Weeks (4 days per week 9AM – 3PM)</i> • <i>Summer I Reading Assignment</i> 	

9th Grade		
Fall Semester		
PD	A Day	B Day
1a	BMAH Foundations of Art [BMAH] (0.25 credit)	Medical Rounds Exploration I [BMAH] (0.25 credit)
1b	BMAH Social Issues [BMAH] (0.25 credit)	BMAH Walking Wellness [BMAH] (0.25 credit)
2	World Language I (0.5 credit)	Elective Period (Band, Orchestra, AVID, etc.) (0.5 credit)
3	Honors English 9 (0.5 credit)	Honors or AP Math I (Geometry or Algebra 2) (0.5 credit)
4	Honors BMAH Biology [BMAH] (0.5 credit)	BMAH Principals of Engineering [BMAH] (0.5 credit)
9th Grade		
Spring Semester		
PD	A Day	B Day
1a	BMAH Foundations of Art [BMAH] (0.25 credit)	Medical Rounds Explorations I [BMAH] (0.25 credit)
1b	BMAH Social Issues [BMAH] (0.25 credit)	BMAH Walking Wellness [BMAH] (0.25 credit)
2	World Language I (0.5 credit)	Elective Period (Band, Orchestra, AVID, etc.) (0.5 credit)
3	Honors BMAH Biology [BMAH] (0.5 credit)	BMAH Principals of Engineering [BMAH] (0.5 credit)
4	Honors English 9 (0.5 credit)	Honors or AP Math I (Geometry or Algebra 2) (0.5 credit)

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. This is a four year program of study and 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.





GRADE 10- SAMPLE Schedule

NOTE: [BMAH] denotes a course for which students are cohorted.

<i>Summer II</i>	
<ul style="list-style-type: none"> • <i>Bridge II experience for Rising 10th Graders – 1 Week (4 days per week 9AM – 3PM)</i> • <i>Summer II Reading Assignment</i> 	

10th Grade		
Fall Semester		
PD	A Day	B Day
1a	BMAH Health [BMAH] (0.25 credit)	Medical Rounds Explorations II [BMAH] (0.25 credit)
1b	Honors US History Hybrid [BMAH] (0.5 credit)	BMAH Art: Studio 2D [BMAH] (0.25 credit)
2	World Language II (0.5 credit)	Elective Period (Band, Orchestra, AVID, etc.) (0.5 credit)
3	Honors English 10 (0.5 credit)	Honors or AP Math II (0.5 credit)
4	Honors BMAH Chemistry [BMAH] (0.5 credit)	BMAH Pathway I Course AP Human Geography OR AP/Honors Statistics OR AP Psychology OR PLTW [BMAH] (0.5 credit)
10th Grade		
Spring Semester		
PD	A Day	B Day
1a	BMAH Health [BMAH] (0.25 credit)	Medical Rounds Explorations II [BMAH] (0.25 credit)
1b	Honors US History [BMAH] (0.5 credit) Hybrid	BMAH Art: Studio 2D [BMAH] (0.25 credit)
2	World Language II (0.5 credit)	Elective Period (Band, Orchestra, AVID, etc.) (0.5 credit)
3	Honors English 10 (0.5 credit)	Honors or AP Math II (0.5 credit)
4	Honors BMAH Chemistry [BMAH] (0.5 credit)	BMAH Pathway I Course AP Human Geography OR AP/Honors Statistics OR AP Psychology OR PLTW [BMAH] (0.5 credit)

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. This is a four year program of study and 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.





GRADE 11- SAMPLE Schedule

NOTE: [BMAH] denotes a course for which students are cohorted.

Summer III	
<ul style="list-style-type: none"> • <i>Bridge III experience for Rising 11th Graders – 1 Week (4 days 9AM – 3PM)</i> • <i>Summer III Reading Assignment</i> 	

11th Grade		
Fall Semester		
PD	A Day	B Day
1	Honors or AP English 11 (0.5 credit)	Honors or AP Math III (0.5 credit)
2	Honors BMAH Physics [BMAH] (0.5 credit)	STEM Pathway II Course [BMAH] (0.5 credit)
3	World Language III or Elective Period (0.5 credit)	BLOCK SCHEDULED: 3 courses in 2 periods <ul style="list-style-type: none"> • Problem/Project Based Learning Explorations: Community Challenge [BMAH] (0.5 credit) • STEM Policy [BMAH] (0.5 credit) • STEM Science Research 3 [BMAH] (0.5 credit)
4	Honors or AP US Government [BMAH] (0.5 credit)	

11th Grade		
Spring Semester		
PD	A Day	B Day
1	Honors or AP English 11 (0.5 credit)	Honors or AP Math III (0.5 credit)
2	Honors BMAH Physics [BMAH] (0.5 credit)	STEM Pathway II Course [BMAH] (0.5 credit)
3	World Language III or Elective Period (0.5 credit)	Elective Period (0.5 credit)
4	Honors or AP US Government [BMAH] (0.5 credit)	Elective Period (0.5 credit)



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. This is a four year program of study and 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.





GRADE 12- SAMPLE Schedule

NOTE: [BMAH] denotes a course for which students are cohorted.

Summer IV
<i>Internship Experience (135 hours) for most students Summer IV Reading Assignment</i>

12th Grade		
Fall Semester		
PD	A Day	B Day
1	AP or Honors English 12 (0.5 credit)	Honors or AP Math IV (0.5 credit)
2	AP Science or other Honors Science [BMAH] (0.5 credit)	BMAH Pathway Course: Capstone [BMAH] (0.5 credit)
3	World Language IV or Elective Period (0.5 credit)	Elective or Early Release for Internship (credit TBD) (Must be evaluated and approved by the STEM Office and the Board of Education prior to course placement.)
4	Honors or AP World History [BMAH] (0.5 credit)	Elective or Early Release for Internship (credit TBD) (Must be evaluated and approved by the STEM Office and the Board of Education prior to course placement.)

12th Grade		
Spring Semester		
PD	A Day	B Day
1	AP or Honors English 12 (0.5 credit)	Honors or AP Math III (0.5 credit)
2	AP Science or other Honors Science [BMAH] (0.5 credit)	STEM Pathway Course: Capstone [BMAH] (0.5 credit)
3	World Language IV or Elective Period (0.5 Credits)	Elective or Early Release for Internship (credit TBD) (Must be evaluated and approved by the STEM Office and the Board of Education prior to course placement.)
4	Honors or AP World History [BMAH] (0.5 credit)	Elective or Early Release for Internship (credit TBD) (Must be evaluated and approved by the STEM Office and the Board of Education prior to course placement.)

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. This is a four year program of study and 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.

