

Kennesaw Mountain High School
Academy of Mathematics, Science, and Technology Four-Year Plan

9th grade	Magnet Biology Magnet Chemistry Triple bundle: Magnet 9th Lit, Intro to Digital Technology, and Research 1* Coordinate Algebra and Honors Analytic Geometry or Honors Analytic Geometry and Honors Algebra II Optional: AP Human Geography Required for graduation (may take any year): <ul style="list-style-type: none"> • Health and Personal Fitness • Two semesters of the same foreign language; three for some out-of-state colleges 		
	STEM Disciplines Students are encouraged, but not required, to focus on a STEM discipline beginning in 10th grade <ul style="list-style-type: none"> • Biochemistry • Engineering • Medical • Computer Science • Environmental 		
	10th grade	11th grade	12th grade
Mathematics <i>Minimum of 1 AP Mathematics class</i>	Pre-Calculus Optional: AP Stats (for strong math students)	Calculus or AP Calculus AB AP Calculus BC Optional: AP Stats	AP Calculus AB and BC or Multivariable Calculus and/or AP Statistics and/or Advanced Mathematical Topics
Science <i>Minimum of 2 AP Sciences prior to senior year</i>	AP Physics 1 Choice: AP Biology, AP Chemistry, AP Environmental, Honors Anatomy, Honors Zoology, or Honors Biochemistry	Choice(s): AP Biology, AP Chemistry, AP Environmental, AP Physics C Mechanics, AP Physics C E&M, AP Computer Science, AP Computer Science Principles, Honors Anatomy, Honors Zoology, Honors Biochemistry, Triple bundle: (Honors Anatomy, AP Biology, & Post AP Advanced Genetics/ DNA Research)*	Post AP Advanced Scientific Research & Post AP Advanced Scientific Internship Optional: Additional science class(es)
Social Studies	AP World History or Honors World History	AP US History or Honors US History	AP Economics & AP Government or Honors Government & Honors Economics
English	Honors British Literature	AP Language (Am. Lit.) or Honors Am. Lit.	AP English Literature or Honors Advanced Composition
STEM Seal	Three options: Complete approved CTAE** path, submit pre-approved research to Google Science Fair, Intel, Siemens, or similar pre-approved competition		
STEAM Seal	Possible areas: Art, Band, Chorus, Drama, and Orchestra (refer to KMHS Magnet Fine Arts Curriculum for specific requirements for each area)		

*Triple bundles occur within two blocks (one fall and one spring) and students earn three credits

**Approved Career, Technology, & Agricultural (CTAE) pathways for STEM Seal:

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| <ul style="list-style-type: none"> • Architectural Drafting • Audio/Visual Technology and Film • Computer Science • Engineering Drafting and Design | <ul style="list-style-type: none"> • Graphic Design • Information Support and Services • Web and Digital Design |
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Magnet students

- may not participate in dual enrollment programs during fall or spring semesters
- may not graduate early
- must complete a minimum of 11 honors, AP, or Post AP math and science classes at KMHS
- must complete a minimum of 8 AP courses exclusive of on-line courses
- must receive pre-approval prior to enrolling in online classes