

**Kennesaw Mountain High School Academy of Mathematics, Science, and Technology
Four-Year Plan of Study Class of 2020**

9th grade	Magnet Biology Intro to Digital Technology Research 1 Coordinate Algebra and/or Honors Analytic Geometry and Honors Advanced Algebra Optional: AP Human Geography Required for graduation (may take any year): -Health and Personal Fitness -Two semesters of the same foreign language; three for some out-of-state colleges Magnet Chemistry Magnet 9 th Lit		
STEM Disciplines	Students are encouraged to focus on one discipline beginning in 10 th grade Biochemistry Engineering Medical Computer Science Environmental		
	10th grade	11th grade	12th grade
Mathematics Minimum 1 AP Mathematics class	H Advanced Algebra and CCGPS Pre-Calculus or ACC CCGPS 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 Minimum 2 AP Sciences prior to senior year	AP Physics 1 Choice: AP Biology, AP Chemistry, AP Environmental, Honors Anatomy, or Honors Biochemistry	Choice: AP Biology, AP Chemistry, AP Physics C Mechanics, AP Physics C E&M, Post AP Advanced Genetics/DNA Research	Post AP Advanced Scientific Research & Post AP Advanced Scientific Internship Optional: Honors, AP or Post-AP Science classes
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 World Lit.
STEM Seal	Three options: Complete approved CTAE* path, Sophomore year enroll in Research II and submit to Science Fair, and/or Junior year enroll in Research III and submit to Intel or Siemens		
STEAM Seal	Possible areas: Art, Band, Chorus, Drama, and Orchestra (refer to KMHS Magnet Fine Arts Curriculum for specific requirements for each area)		

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

- Architectural Drafting
- Audio/Visual Technology and Film
- Computer Science
- Engineering Drafting and Design
- Graphic Design
- Information Support and Services
- Web and Digital Design

Magnet students

- may not participate in dual enrollment programs
- must complete a minimum of 11 honors, AP, or Port 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