

Kennesaw Mountain High School
Academy of Mathematics, Science, and Technology Four-Year Plan (this is not a schedule)

Subject	Units	9 th Grade	10 th grade	11 th grade	12 th grade
English Must include: 1 unit 9 th Lit 1 unit American Lit or AP Lang/Am Lit	4	M 9 th Literature/Intro to Digital Tech/Research I (year-long)	Honors British Literature	AP Language (Am. Lit. or Honors Am. Lit.)	AP English Literature or Honors Adv. Comp
Mathematics Minimum 1 AP Mathematics class Acceleration through math varies for students. All magnet students complete Pre-calculus by 10 th grade Minimum graduation requirement: 4	Must complete a combined minimum of 11 math and science courses in grades 9-12 to receive magnet seal.	Algebra I & H Geometry or H Geometry & H Algebra II or H GeometryB/Algebra II or Algebra II	H Algebra II & Pre-Calculus or ACC Pre-Calculus AP Statistics (for strong math students)	Calculus or AP Calculus AB & BC AP Statistics	AP Calculus AB & BC or Multivariable Calculus & Advanced Mathematical Topics or GA Tech Math or AP Statistics
Science Must include: Biology Physics Chemistry Advanced Scientific Research Advanced Scientific Internship Minimum graduation requirement: 4		Magnet Biology & Magnet Chemistry	AP Physics 1 and one of the following: AP Biology, AP Chemistry, AP Environmental, Honors Anatomy, Honors Biochemistry, Honors Zoology, Honors Astronomy	Complete 1 or 2: AP Biology, AP Chemistry AP Physics C Mechanics, Adv Genetics/DNA Research, Honors Anatomy, Honors Biochemistry, Honors Zoology, Honors Astronomy, Hybrid (AP Bio/DNA/Anat), Chem. Material Sci. Engineering	Advanced Scientific Research & Advanced Scientific Internship
Social Studies Must include: World History US History Economics & US Government	3	Optional: AP Human Geography (elective)	AP World History or Honors World History	AP US History or Honors US History	AP Gov & AP Econ (2 semesters) or H Gov/Econ (1 semester)
CTAE/Fine Arts/Foreign Lang Two credits of the same foreign language is required for Georgia colleges; some out-of-state colleges require 3+ units of the same foreign language. Check with colleges regarding fine arts requirement.	3				
Health & Personal Fitness	0.5/0.5				
Electives Any area, including academic courses					

23 total credits are required for graduation

<p>Additional Info for Magnet Students:</p> <ul style="list-style-type: none"> • may not participate in dual enrollment programs • must complete a minimum of 11 honors, AP, or Post AP math and science classes at KMHS • must complete a minimum of 1 AP math course • must complete a minimum of 8 AP courses exclusive of on-line courses • must receive pre-approval prior to enrolling in online classes 	<p>STEM Seal: Three options: Complete approved CTAE path (listed below), submit approved entry to Science Fair, Intel, Siemens and/or other pre-approved STEM competition</p> <ul style="list-style-type: none"> • Architectural Drafting • Audio/Visual Technology & Film • Computer Science • Engineering Drafting & Design • Graphic Design • Information Support & Services • Web and Digital Design 	<p>STEAM Seal Possible areas: Art, Band, Chorus, Drama, and Orchestra</p> <p>Refer to KMHS Magnet Fine Arts curriculum for specific requirements.</p>
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