

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

Subject	Units	9 th Grade	10 th grade	11 th grade	12 th grade
English Must include: 9 th Lit American Lit or AP Lang/Am Lit	4	M 9 th Literature/Intro to Digital Tech/M Foundations (year-long)	H World Literature	AP Language (American Lit), H American Literature, or American Studies (year-long AP Language and AP US History)	AP English Literature, H Advanced Comp, or Dramatic Writing
Mathematics Minimum 1 AP Mathematics class. Acceleration through math varies for students. All magnet students complete Pre-calculus by the end of 10 th grade. Minimum graduation requirement: 4	Must complete combined minimum of 11 math and science courses in grades 9-12 to earn magnet seal.	H Algebra I & H Geometry or H Geometry & H Algebra II or Acc Geometry B/ Algebra II or H Algebra II	Minimum: Must complete through Pre-Calculus ----- H Algebra II & Pre-Calculus or Acc Pre-Calculus or Pre-Calculus & optional Calculus	Calculus or AP Calculus AB & BC or AP Statistics	AP Calculus AB & BC or AP Statistics ----- <i>After completion of AP Calc:</i> Multivariable Calculus & Differential Equations or GA Tech Math (2 semesters)
Science Must include: M Biology AP Physics M Chemistry 4 th science (honors, AP, or post AP) Advanced Scientific Research Advanced Scientific Internship		Magnet Biology & Magnet Chemistry	AP Physics 1	H Anatomy, H Astronomy, H Biochemistry, H Zoology, H Research II or III, AP Biology, AP Chemistry, AP Environmental, AP Physics C Mechanics, Adv Genetics/DNA Research, Triple Play (AP Bio/DNA/Anat), Chem. Material Sci. Engineering	Advanced Scientific Research & Advanced Scientific Internship
Additional Math or Science courses toward the magnet seal (sophomore year requirement) CTAE courses AP Computer Science Principles and AP Computer Science may be used toward the magnet seal but not toward Science graduation requirements.			Complete one of the following: AP Calculus BC (if prerequisite met), AP Statistics, AP Biology, AP Chemistry, AP Environmental, H Research II, H Anatomy, H Biochemistry, H Zoology, H Astronomy, AP Computer Science Principles, AP Computer Science	Must complete a minimum of 2 AP science courses prior to graduation. May include AP CSP or AP CS.	
Social Studies Must include: World History US History Economics & US Government	3	Optional: AP Human Geography (elective)	AP World History or H World History	AP US History, H US History, or American Studies (year-long AP US History and AP Language)	AP Econ & AP US Gov (year-long) or H Econ/H US Gov
CTAE/Fine Arts/Foreign Lang 2 credits in the same foreign lang required for GA colleges; may differ for out-of-state colleges	3				
Health & Personal Fitness	0.5/0.5				
Electives Any area, including academic courses					

Additional program requirements are included on the Magnet Student Contract.

Additional Info for Magnet Students <ul style="list-style-type: none"> Must complete through Calculus (on-level or AP) and 1 AP math course AP CSP and AP CS may be used toward magnet seal requirements Must complete a minimum of 8 AP/Post AP courses exclusive of online courses (not to include Adv Scientific Research & Internship) Must receive pre-approval prior to enrolling in online courses. Academic courses required for graduation or magnet seal may not be completed online. 	STEM Seal (optional) 1) Complete one CTAE pathway listed below or 2) Submit approved entry to Science Fair or other pre-approved STEM competition. <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 	STEAM Seal (optional) Possible areas: Art, Band, Chorus, Drama, and Orchestra Refer to KMHS Magnet Fine Arts curriculum on KMHS Magnet website for specific requirements. http://kmhsmagnet.com/
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