

Kennesaw Mountain High School

Class of 2027: 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 (LTR) American Lit or AP Lang/Am Lit	4	M 9 th Literature/Intro to Software Tech/M Foundations (year-long)	H World Literature or AP Seminar	AP Language (American Lit) or H American Literature	AP English Literature, H Advanced Comp, or Dramatic Writing
Mathematics Acceleration through math varies for students. All magnet students must complete Precalculus by the end of 10 th grade. Minimum: must complete through Calculus. Must complete a minimum of either AP Calculus AB or AP Statistics. Minimum graduation requirement: 4	Must complete combined minimum of 11 math, science, and/or AP Computer Science courses in grades 9-12 to earn magnet seal.	<i>Varies based on math completed in 8th grade</i>	<i>Minimum: Must complete through Precalculus</i> H Adv Algebra & Precalculus or H Adv Algebra & AP Precalculus ----- Precalculus or AP Precalculus ----- AP Precalculus ----- AP Calculus AB & BC ----- AP Calculus AB & BC	Calculus or AP Calculus AB & BC or AP Statistics ----- <i>Calculus options after completion of AP Calculus AB & BC:</i> Multivariable Calculus & Differential Equations or GA Tech Math (2 semesters) by application	AP Calculus AB & BC or AP Statistics ----- <i>Calculus options after completion of AP Calculus AB & BC:</i> Multivariable Calculus & Differential Equations or GA Tech Math (2 semesters) by application
		H Algebra & H Geometry ----- H Geometry & H Adv Algebra ----- H Adv Algebra ----- H Adv Algebra & Precalculus or H Adv Algebra & AP Precalculus ----- AP Precalculus	Optional: -on-level Calculus after completion of Precalculus or AP Precalculus -AP Statistics	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/H Anat), Chem. Material Sci. Engineering	Advanced Scientific Research & Advanced Scientific Internship (2 classes, same semester)
Science Must include: M Biology M Chemistry AP Physics I *4 th science (honors, AP, or post AP) Advanced Scientific Research Advanced Scientific Internship *Must be a traditional science class		Magnet Biology & Magnet Chemistry	AP Physics 1		
Additional Math, Science, or Computer Science courses toward magnet seal (sophomore year requirement)			Must complete a minimum of 2 AP science courses or 1 AP science and AP CSP prior to Adv Sci Research. 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 Astronomy, H Biochemistry, H Zoology, AP Computer Science, AP Computer Science Principles		
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 or H US History	AP Econ & AP US Gov (year-long) or H Econ/H US Gov
CTAE/Fine Arts/Foreign Lang Minimum of 2 credits in the same foreign lang required for GA colleges	3				
Health & Personal Fitness	0.5/0.5				
Electives					

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). Must complete a minimum of either AP Calculus AB or AP Statistics. 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 an online course. 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"> <li style="width: 50%;">Architectural Drafting <li style="width: 50%;">Information Support & Services <li style="width: 50%;">Audio/Visual Technology <li style="width: 50%;">NJROTC (must be on JROTC Drone Team) <li style="width: 50%;">Computer Science <li style="width: 50%;">Web and Digital Design <li style="width: 50%;">Engineering Drafting & Design <li style="width: 50%;">Graphic 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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