



North Springs Math & Science Magnet Pathways

(Class of 2022 and on)

All incoming Math & Science magnet students must take a math placement test to determine the appropriate tier pathway. All courses listed in the pathways are required to earn the magnet diploma. Additional magnet details are provided on the following pages.

Tier I Magnet Pathways

	9 th Grade Requirements	10 th Grade Requirements	11 th Grade Requirements	12 th Grade Requirements
Math	Accelerated Algebra I/ Geometry A	Accelerated Geometry B/ Algebra II <i>Students must take <u>one</u> of the following spring semester for dual enrollment: ACT, SAT, Accuplacer.</i>	1. Dual Enrollment: College Algebra (fall) & Pre-calculus (spring) <i>Tentatively scheduled to be taught on North Spring campus.</i>	<u>One</u> of the following: Option 1: DUAL ENROLLMENT-Calculus 1 (fall) and Calculus 2 (spring) Option 2: AP Calculus AB Option 3: AP Calculus BC
			AP Stat either year (magnet elective credit)	
Science	Biology Honors	Chemistry Honors	1. AP Physics 1	<u>One</u> of the following: AP Biology AP Chemistry AP Environmental Science AP Physics 2 AP Physics C
Other	Participate in at least two (2) math or science competitions			



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Tier II Magnet Pathways

	9th Grade Requirements	10th Grade Requirements	11th Grade Requirements	12th Grade Requirements
Math	Accelerated Geometry B/ Algebra II <i>Students must take <u>one</u> of the following spring semester for dual enrollment: ACT, SAT, Accuplacer.</i>	DUAL ENROLLMENT (College Algebra & Pre-calculus) <i>Tentatively scheduled to be taught on North Spring campus.</i>	<u>One</u> of the following: Option 1: DUAL ENROLLMENT-Calculus 1 (fall) and Calculus 2 (spring) Option 2: AP Calculus AB Option 3: AP Calculus BC (required for advanced calculus DUAL ENROLLMENT GA Tech 12 th grade)	<u>One</u> of the following: Option 1: DUAL ENROLLMENT GA Tech advanced calculus (both semesters) <i>Requires Calculus BC with 4 on AP exam</i> Option 2: AP Calculus BC
			AP Stat either year (magnet elective credit)	
Science	Biology Honors	Chemistry Honors	1. AP Physics 1	<u>One</u> of the following: AP Biology AP Chemistry AP Environmental Science AP Physics 2 AP Physics C
Other	Participate in at least two (2) math or science competitions			

*Students entering the magnet with only Algebra I or Honors Algebra and desire to be in Tier 2 must successfully complete Geometry A over the summer prior to 9th grade year.



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Math & Science Magnet Requirements:

- All Freshmen must take a math placement test to determine the appropriate tier.
- Students successfully complete Tier I or Tier II
- In the spring semester of Accelerated Geometry, students must apply and enroll in Move on When Ready to receive at least two dual-enrolled college math credits the following school year.
- AP Statistics is required junior or senior year.
- AP Physics is required junior year.
- Students must take a minimum of two (2) AP science courses (AP Physics counts as one).
- Students must participate in at least 2 math or science competitions.

Math & Science-Related Organizations & Competitions

- Science Fair
- Science Bowl
- Science Olympiad
- Math Team
- COMAP
- Computer Science Club
- National Science Honor Society
- Governor's Honors
- HOSA (Healthcare Science)
- FBLA (Computer Science)
- Deconstruction Challenge
- ACDC
- National Math Honor Society
- SSEF STEAM Showcase

North Springs Math Course Offerings

Algebra 1:

- Freshmen who completed on level pre-algebra in 8th grade

Accelerated Algebra 1 (Alg 1 & Geometry A):

- Freshmen who made a 3 or 4 on EOG and were in accelerated/honors math in 8th grade

Geometry:

- Freshmen or Sophomores who completed on level Algebra 1 the previous year

Accelerated Geometry (Geometry B & Alg 2):

- Freshmen who successfully completed Algebra 1 course and EOC in the 8th grade
- Sophomores who successfully completed Accelerate Algebra 1 freshman year

Algebra 2:

- Juniors who completed on level Geometry sophomore year

Pre-calculus:

- Sophomores who completed Accelerated Geometry below 80
- Juniors who completed Algebra 2

Accelerated Pre-calculus:

- Freshmen who successfully completed Accelerated Algebra 1 AND Accelerated Geometry with EOCs prior to high school
- Sophomores who successfully completed Accelerated Geometry Freshman year
- Juniors who successfully completed Accelerated Geometry during sophomore year

AP Statistics:

- Juniors and seniors who need the course as an elective for magnet, and are recommended by their previous teacher
- Seniors who need an additional math class for graduation

Calculus:

- Seniors who completed Pre-calculus or Accelerated Pre-calculus and do not want to take AP math their senior year

AP Calculus AB:

- Sophomores, Juniors and Seniors who completed Accelerated Pre-calculus the previous year

AP Calculus BC:

- Juniors and Seniors who has taken AP Calculus AB

DUAL ENROLLMENT Georgia Tech Advanced Calculus (College Credit):

- Seniors who completed Calculus BC their junior year and scored 4 or 5 on AP exam

AMDM (Advanced Mathematical Decision Making):

- Seniors who have completed Algebra 2
- Note: Not recommended for those planning to attend college

College Readiness Math

- Seniors who scored less than an 80 in Algebra 2 and pursue a non-STEM degree in college

North Springs Science Course Offerings

Biology:

- All incoming Freshmen

Honors Biology:

- Freshmen who made a 3 or 4 on the physical science EOC in the 8th grade

Chemistry:

- Sophomore who completed Biology freshmen year with a grade 80 or above

Honors Chemistry

- Sophomores who completed and were successful in Biology or Honors Biology (with an 85) freshman year

Physics:

- Juniors who completed on level Chemistry or Environmental Science sophomore year

AP Physics:

- Juniors who completed and were successful in Honors Chemistry (with an 85) sophomore year.

Environmental Science:

- Sophomores who successfully completed Biology with 79 or below
- Seniors who successfully completed Physics as an elective

Honors Anatomy:

- Juniors and Seniors who need the course as an elective for magnet, and are recommended by their previous teacher

Forensics:

- Juniors or Seniors who need a 4th year science

AP Biology | AP Chemistry | AP Environmental Science:

- Juniors or Seniors who need an elective course and are recommended by their previous teacher

AP Physics 2:

- Junior or Seniors who successfully completed AP Physics 1 and are recommended by their previous teacher

AP Physics C:

- Seniors who successfully completed AP Physics 2 and are recommended by their previous teacher