## 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

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

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