The Math & Science Magnet Program

The Magnet Program is a rigorous 4-year program. The program is an AP Capstone Program. In order to graduate from the Math and Science Magnet Program, students must complete 155 credits, including three specialized research classes, Research Based Analysis Honors, AP Seminar, and AP Research. Students in the Magnet Program may be eligible for the AP Capstone Certificate or the AP Capstone Diploma. Students in the Magnet Program are required to design and conduct their own original research project and complete a 4,000 to 5,000-word thesis with an oral defense. Currently, there are 110 students in grades 9-12 in the Magnet Program. The Magnet 2023 Class information is included in the document.

The Academy for Mathematics, Science & Engineering

Morris Hills High School serves as the host site for The Morris County Academy for Mathematics, Science, and Engineering. The Academy is a part of the Morris County Vocational-Technical School District and provides a highly specialized, rigorous curriculum for qualified students throughout Morris County. Morris Hills’ coursework, athletics, and activities are open to Academy students. The CEEB code for the Academy is 310274.

AVID

(Advancement Via Individual Determination)

The AVID program is a nationwide, four-year program designed to lend individual support to students as they develop their college readiness skills. AVID students are required to take 140 credits for graduation, 20 of which are for the required AVID Elective courses, as well as a minimum one of Honors or AP courses per year. The focus of each of the AVID Elective courses is as follows: AVID Elective 9: Transition to high school, introduction to tutorials and organizational skills; AVID Elective 10: Focus on WICOR skills, higher-order questioning skills and strategies for academic success, AVID Elective 11: College admissions & testing preparation, AVID 12 Elective: Critical reading, analytical writing and the college application process. Today Morris Hills has 86 AVID students in grades 9-12.
High School Graduation Requirements
Morris Hills High School students must complete 140 credits, 20 credits above the established state guideline. Magnet students must complete 155 credits, 35 credits above the established state guideline. Students are required to pursue at least 35 credits each academic year. Morris Hills utilizes an alternating A-Day, B-Day block schedule; students have four 88-minute blocks on each A and B Day. The vast majority of courses run from September to June for 5 credits; a small number of semester courses run for half a year and earn 2.5 credits.

<table>
<thead>
<tr>
<th>Content Area</th>
<th>Credits Required for Graduation</th>
<th>Most Rigorous Courses Offered in Content Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>20</td>
<td>AP English—Literature and Composition&lt;br&gt;AP English – Language and Composition</td>
</tr>
<tr>
<td>Social Studies</td>
<td>15</td>
<td>AP European History, AP United States History, AP Psychology, AP Economics, AP Human Geography, AP US Government &amp; Politics</td>
</tr>
<tr>
<td>Mathematics</td>
<td>15</td>
<td>Calculus III—Multivariable A/H, AP Calculus BC, AP Calculus AB, &amp; AP Statistics</td>
</tr>
<tr>
<td>Science</td>
<td>15</td>
<td>AP Physics 1, AP Physics C, AP Chemistry, AP Biology, AP Environmental Science, *AP Seminar, &amp; *AP Research</td>
</tr>
<tr>
<td>World Language</td>
<td>5</td>
<td>AP French Lang, AP Spanish Lang, &amp; German 4H</td>
</tr>
<tr>
<td>Computer Literacy</td>
<td>5</td>
<td>AP Computer Science A &amp; AP Computer Science Principles</td>
</tr>
<tr>
<td>Visual &amp; Performing Arts</td>
<td>5</td>
<td>AP Art History, AP Studio Art (2D, 3D &amp; Drawing), &amp; AP Music Theory</td>
</tr>
<tr>
<td>Physical Education/Health</td>
<td>20</td>
<td>N/A</td>
</tr>
<tr>
<td>Other Electives</td>
<td>40</td>
<td>Electives are offered in all core academic departments as well as in art, business, family/consumer science, music, and technology.</td>
</tr>
</tbody>
</table>

*For Magnet Students ONLY

| World History H        | College Accounting 1 H          | Algebra 2 H          | German 3 H          |
| United States History 1 H | College Accounting 2 H          | Pre-Calculus H       | German 4 H          |
| Biology 1 H            | Calculus III-Multivariable H    | French 3 H           | Spanish 3 H         |
| Chemistry 1 H          | Calculus/Analytic Geometry H    | French 4 H           | Spanish 4 H         |
| Geometry H             | *Research Based Analysis H      | Acc Spanish H        | Advanced Band H     |
| Advanced Concert Choir H | Strings Ensemble H              | English 9 H          | **AVID English 9 H  |
|                        |                                 | English 10 H         | English 11 H        |

**For AVID Students ONLY
**Class of 2024 Profile**

Morris Hills HS Senior Class: 287

*Magnet Senior Class: 20*

Highest cumulative GPA: 104.34

MHHS Average Cumulative GPA: 87.89

*Magnet Average Cumulative GPA: 98.63*

*National & State based on 2022 SAT’s*

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**2023 Advanced Placement Outcomes**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of students taking at least one AP Exam:</td>
<td>410</td>
</tr>
<tr>
<td>Total Number of Exams taken:</td>
<td>1009</td>
</tr>
<tr>
<td>Percentage of students scoring 4 or 5</td>
<td>71%</td>
</tr>
<tr>
<td>Percentage of students scoring 3 or more</td>
<td>85%</td>
</tr>
<tr>
<td>National Merit Recognitions</td>
<td>9</td>
</tr>
</tbody>
</table>

---

**AP Scholars**

In July of 2023, two hundred and two students earned AP Scholars Awards in recognition of their exceptional achievement on AP Exams earning 3 or higher on three or more AP Exams with a 4.22 Average Score including:

<table>
<thead>
<tr>
<th></th>
<th>AP Scholar</th>
<th>AP Scholar With Honor</th>
<th>AP Scholar With Distinction</th>
<th>AP Capstone Diploma</th>
<th>AP Seminar &amp; Research</th>
</tr>
</thead>
<tbody>
<tr>
<td># of Scholars</td>
<td>43</td>
<td>41</td>
<td>117</td>
<td>21</td>
<td>7</td>
</tr>
<tr>
<td>Average Score</td>
<td>3.46</td>
<td>4.03</td>
<td>4.44</td>
<td>4.20</td>
<td>2.81</td>
</tr>
</tbody>
</table>

---

**Grading System**

Students earn grades based on a quarterly system. Final grades are calculated by averaging each of the four quarters and the quarterly exams or projects for each course. Grades may be interpreted as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90-100</td>
</tr>
<tr>
<td>AU</td>
<td>Audit (no credit)</td>
</tr>
<tr>
<td>B</td>
<td>80-89</td>
</tr>
<tr>
<td>P or PS</td>
<td>Pass</td>
</tr>
<tr>
<td>C</td>
<td>70-79</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 70</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
<tr>
<td>DF/DP</td>
<td>Drop Fail/Pass (loss of credit due to poor attendance)</td>
</tr>
<tr>
<td>WF/WP</td>
<td>Withdraw Fail/Pass (withdrawal from class after deadline)</td>
</tr>
</tbody>
</table>

**Class Rank/GPA:** All courses are included in class rank/GPA calculation, with the exception of Physical Education and any courses taken on a pass/fail or audit basis.

**Weighting:** Honors/Advanced courses earn an extra 5 points in GPA calculation and are designated on the transcript with an “H” at the end of the course name. Our 20 Advanced Placement courses earn an extra 10 points in GPA calculation and are designated on the transcript as “AP.”
### Class of 2023 Post-Secondary Plans

<table>
<thead>
<tr>
<th>Plans</th>
<th># of 2023 Graduates</th>
<th>% of 2023 Graduates</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-year College</td>
<td>153</td>
<td>55%</td>
</tr>
<tr>
<td>2-year College</td>
<td>75</td>
<td>27%</td>
</tr>
<tr>
<td>Technical/Trade School</td>
<td>13</td>
<td>5%</td>
</tr>
<tr>
<td>Military</td>
<td>5</td>
<td>2%</td>
</tr>
<tr>
<td>Employment/Year Off</td>
<td>11</td>
<td>4%</td>
</tr>
<tr>
<td>Other</td>
<td>20</td>
<td>7%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>277</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

### Class of 2023 Matriculations

- American University
- Bergen Community College
- Boston University
- Bucknell University*
- Caldwell University
- Carnegie Mellon University
- Cedarville University*
- Centenary University
- Clemson University
- Coastal Carolina University
- Commonwealth University
- County College of Morris<
- Delaware Valley University<
- Drew University
- East Stroudsburg University of Pennsylvania<
- Eastern Kentucky University*
- Fairleigh Dickinson
- University-Florham Campus
- Fairleigh Dickinson University-Metropolitan Campus
- Fashion Institute of Technology
- Franklin and Marshall College
- Full Sail University
- Georgetown University*
- Georgia Institute of Technology *
- Hodges University
- Hofstra University
- Ithaca College
- Kean University
- LIM College
- Lincoln Technical Institute-Mahwah
- Louisiana State University
- Misericordia University
- Monmouth University
- Montclair State University<
- Muhlenberg College<
- New Jersey Institute of Technology<
- New York University
- Northeastern University*
- Pace University, New York City Campus<
- Pennsylvania State
- University-Penn State Main Campus
- Purdue University-Main Campus
- Quinnipiac University
- Ramapo College of New Jersey<
- Raritan Valley Community College
- Rensselaer Polytechnic Institute*
- Rider University
- Rowan University<
- Rutgers University School of Nursing
- Rutgers University-New Brunswick*
- Rutgers University-Newark
- Sacred Heart University
- Saint Elizabeth University<
- Seton Hall University<
- St. John's University-New York
- Stevens Institute of Technology*
- Stockton University
- SUNY College at Old Westbury<
- Susquehanna University
- Sussex County Community College
- Temple University*
- The College of New Jersey*
- The New School
- The University of Tampa
- United States Military Academy*
- University of California-Berkeley*
- University of California-San Diego*
- University of Chicago*
- University of Connecticut
- University of Delaware*
- University of Florida
- Massachusetts-Lowell*
- University of Miami
- University of New Hampshire
- Hampshire-Main Campus
- University of New Haven*
- University of Northwestern Ohio
- University of Pennsylvania
- University of Scranton
- University of South Carolina-Columbia
- Ursinus College<
- Virginia Tech*
- West Chester University of Pennsylvania
- Wilkes University
- William Paterson University of New Jersey<

*Includes Magnet Student College Matriculations
<Includes AVID Student College Matriculations