

The Academy for

MATHEMATICS, SCIENCE AND ENGINEERING

High School Profile 2015-2016

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Accredited by the Middle States
Association of Colleges and Schools
and by the Council on
Occupational Education

Member of the National
Consortium for Secondary STEM
Schools (NCSSS)

The Academy

The Academy for Mathematics, Science, and Engineering, located at Morris Hills High School, is a rigorous, highly focused four year program for Morris County students with career interests in mathematics, science, or engineering. Students complete a challenging curriculum and participate in technical internships with partners from business and industry. The Academy was ranked as the third best high school by Newsweek in 2015. Admission to the Academy is competitive, with students selected from throughout Morris County. For the 2015-2016 school year, 16.4% of applicants were admitted to the Academy.

The Academy is a collaborative effort among the Morris County Board of Chosen Freeholders, the Morris County Vocational School District, and the Morris Hills Regional District.

Our Campus

The Academy is located at Morris Hills High School, a 39-acre site that was the former Günter Estate in Rockaway, New Jersey. The Academy is housed in the Dr. James J. McNasby Technology Center, a modern facility with laboratories and classroom space. Students complete coursework both in the Academy building and at Morris Hills High School.

Our Region

Morris County, among the fastest growing counties in the tri-state area, nestles amid hills, valleys, and lakes approximately thirty miles northwest of New York City. The county hosts the world headquarters of numerous multi-national corporations, research centers, and laboratories.

Our Curriculum

Schedule: The Academy operates on an alternating A Day/B Day block schedule. Classes are 88-minutes in length. **Academy students take 45 credits per year (9 classes).** The Academy school day begins at 7:18 AM and ends at 3:02 PM.

Graduation Requirements: Academy students are required to complete 170 credits in order to graduate, *50 credits more than the 120 minimum credit requirement for a New Jersey diploma.*

Required Academy Coursework (all taught at the honors/advanced level)

Mathematics	Science	Pre-Engineering	Humanities
Academy Geometry H	AP Physics 1	Academy Computer Aided Design H (CAD)	Academy English 1H
Academy Math Analysis 1H	Academy Chemistry H	Academy Fundamentals of Engineering H	Academy English 2H
Academy Math Analysis 2H	Academy Biology H	Academy Business Strategies H	Academy Social Studies 1H
	Academy Science, Inquiry, and Technology 1H*	Academy Technical Writing H	Academy Social Studies 2H
	Academy Science, Inquiry, and Technology 2H*		Academy Macroeconomics H**
	Academy Science Inquiry and Technology 3H*		

*A rigorous sequence of research and project-based coursework culminating in a 100-hour senior internship experience.

**Requirement can be met through AP Economics.

Additional Honors/AP Coursework

Calculus/Analytic Geometry H
Calculus III—Multivariable H
English 11H
English 12H

French 3H & French 4H
German 3H & German 4H
Spanish 3H & Spanish 4H

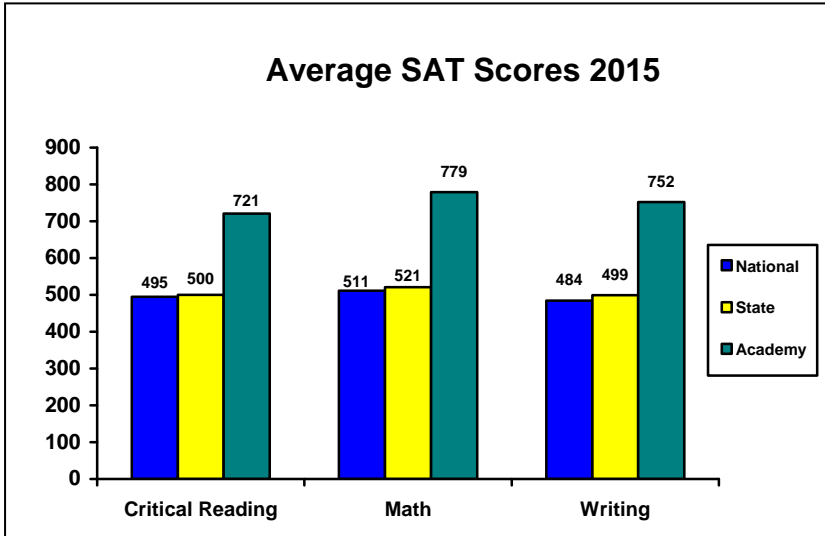
AP Art History
AP Physics C
AP Computer Science
AP European History
AP Lang & Comp

AP Art Studio
AP Calculus AB
AP French Lang
AP US History
AP Music Theory

AP Biology
AP Calculus BC
AP Spanish Lang
AP Economics
AP Environmental Science

AP Chemistry
AP Statistics
AP Psychology
AP Lit & Comp

Class Profile



Class of 2016

Facts at a Glance:

Senior Class Size: 22

Highest GPA: 103.5

Average GPA: 98.54

National Merit Semifinalists: 5

Advanced Placement Data 2015

- Number of students taking an AP: 23
- Total # of AP Tests: 142
- % of students scoring 4 or 5: 82%
- % of students scoring 3 and above: 96%

***Average calculated through Naviance.**

Scholarship Money Offered 2015: \$2,214,500.00

Scholarship Money Accepted 2015: \$1,639,422.00

Grading System

- Quarterly grading system
- Based on a 100-point numerical scale
- Final course grade = four marking period averages and three quarter exams or a final exam/project
- Honors classes indicated with "H" earn 5 extra points when calculating the GPA
- AP courses earn 10 extra points when calculating the GPA

Internship Partners

Arlington Pediatrics Inc.
Ernst & Young, LLP
Department of Physics and Astronomy,
Rutgers University
Essex Medical Center
Navatar Group, Inc.
Novartis Pharmaceuticals Corp.
Matheny Medical & Educational Center
NJIT Vision & Neural Engineering Laboratory
NJ Governor's School for Engineering and Technology
Surydev Alloys and Power PVT LTD
New Jersey Institute of Technology, Fenster Hall
Saint Clare's Hospital
GSM Architects, LLC
Department of Army
Sparta Cancer Center
Isis Pharmaceuticals
H&J Imagine Co.
Weill Cornell Medical Center

Class Rank

Due to our competitive admissions process, small class size, and the exceptional academic achievement of our students, we do not compute a numerical class rank. Please contact the Guidance Office if you need additional information.

Extracurricular Activities

Students can participate in 26 varsity sport programs, over 50 clubs and activities, and 9 honor societies both at Morris Hills High School.

Articulation Agreements for College Credit

Through an articulation agreement between the New Jersey Institute of Technology (NJIT) and the Morris County Vocational School District, students have the opportunity to earn NJIT credit for certain Academy courses, provided students have achieved a grade of 80 or better. Upon graduation, students receive an NJIT transcript listing credits earned through this program.

College Acceptances 2015

Auburn University	New Jersey Institute of Technology	University of California, Berkeley
Boston College	New York University	University of California, Los Angeles
Boston University	Northeastern University	University of Cambridge
Brown University	Pennsylvania State University - All Campuses	University of Chicago
Bucknell University	Pennsylvania State University, Schreyer Honors College	University of Delaware
California Institute of Technology	Princeton University	University of Edinburgh
Carnegie Mellon University	Purdue University	University of Illinois at Urbana-Champaign
Case Western Reserve University	Rensselaer Polytechnic Institute	University of Manchester
Columbia University	Rochester Institute of Technology	University of Maryland, College Park
Cornell University	Rutgers University-New Brunswick	University of Michigan
Dartmouth College	Rutgers, The State University of New Jersey at Newark	University of Pennsylvania
Duke University	St. Bonaventure University	University of Rochester
Georgia Institute of Technology	Stevens Institute of Technology	University of the Sciences in Philadelphia
Haverford College	Syracuse University	University of Washington
Hofstra University	Texas A&M University	Virginia Tech
Imperial College London	The College of New Jersey	Wellesley College
Johns Hopkins University	The Cooper Union for the Advancement of Science & Art	Worcester Polytechnic Institute
Lehigh University	The University of North Carolina at Chapel Hill	
MCPHS - Massachusetts College of Pharmacy & Health Sciences	Tufts University	

Colleges/universities in bold print indicate where students chose to attend.