



## Mathematics, Science & Engineering

Located at MORRIS HILLS HIGH SCHOOL, in Rockaway, the Academy for Mathematics, Science, and Engineering is a rigorous, highly focused four year program for students with career interests in mathematics, science, and engineering.

### ***FRESHMAN YEAR STUDIES INCLUDE***

- Academy CAD Honors (5 credits)
- Academy Geometry Honors (5 credits)
- Mathematical Analysis I Honors (5 credits)
- Academy Advanced Placement Physics I (5 credits)
- English/Humanities I Honors (5 credits) and Social Studies/Humanities I Honors (5 credits)
- State required courses: World Language, Physical Education/Health, and electives

### ***SOPHOMORE YEAR STUDIES INCLUDE***

- Academy Chemistry Honors (5 credits)
- English/Humanities II Honors (5 credits) and Social Studies/Humanities II Honors (5 credits)
- Fundamentals of Engineering Honors\* (5 credits)
- Mathematical Analysis II Honors (5 credits)
- Science Inquiry and Technology I Honors (5 credits)
- State required courses: World Language, Physical Education/Health, and electives

### ***JUNIOR YEAR STUDIES INCLUDE***

- Academy Business Strategies Honors (5 credits)
- Academy Biology Honors (5 credits)
- Science Inquiry and Technology II Honors\* (5 credits)
- State required courses: Physical Education/Health, and electives including AP

### ***SENIOR YEAR STUDIES INCLUDE***

- Academy Biotechnology Honors\* (5 credits)
- Science Inquiry and Technology III Honors\* (5 credits)
- Technical Writing Honors (2.5 credits)
- Macroeconomics Honors\* (2.5 credits) **OR** Advanced Placement Economics\* (2.5 credits)
- Calculus III\*
- State required courses: Physical Education/Health, electives including AP
- **STRUCTURED LEARNING EXPERIENCE (SLE)** : Required 100 hour Internship  
\* NJIT College Credits Available

*STUDENTS WHO GRADUATED FROM THIS PROGRAM continued post-secondary studies in Engineering, Biotechnology, Science Research, Medicine, Veterinary Science and Business*

**ALL INQUIRIES PERTAINING TO PRE-ADMISSION SHOULD BE SUBMITTED TO**  
**Gina DiDomenico, Student Recruitment & Community Relations**  
**Email: didomenicog@mcvts.org - Phone: 973-627-4600 ext. 277**