

## Externship & Culminating Experience

Senior Academy students will have options for their Externship experiences in the New York City metropolitan area.

- Research work in a hospital, college, research center or university
- Shadow at a local hospital
- Shadow a doctor, veterinarian, dentist, chiropractor
- Other externships that meet the criteria for a life-changing experience

## Cohort

The ninth and tenth grade Academy students have time built into their schedule to meet with the Leonia Academy for Science Advocate.

Juniors and seniors will meet with the Advocate during in-school hours to exchange ideas, concerns, and progress in the program.

## Advisory Board

A standing advisory board supports the goals of the L.A.S. Leonia and Edgewater are fortunate to have many professionals in the sciences. Their expertise enhances the L.A.S. program by serving on the advisory board.

In addition to community members, administrators, teachers, students and alumni have membership on the advisory board.

The L.A.S. Advisory Board meets semi-annually to Address the needs of the Academy.

## Enrollments and Acceptances

The students of Leonia Academy for Science are ready to continue their educations at the best colleges in the United States. The following list includes colleges and universities that Academy students have been accepted to, enrolled in or graduated from:

Princeton University	Columbia University
Cornell University	*Brown University
University of Pennsylvania	UCal Berkeley
University of Michigan	U of Southern Cal.
Carnegie Mellon	NYU
Washington Univ. in St Louis	University of Illinois
Bryn Mawr College	Smith College
Haverford College	Lehigh University
Albany College of Pharmacy	Boston College
Rutgers School of Pharmacy	*The College of NJ
St. John's School of Pharmacy	Wesleyan University
Philadelphia College of Pharmacy	Boston University

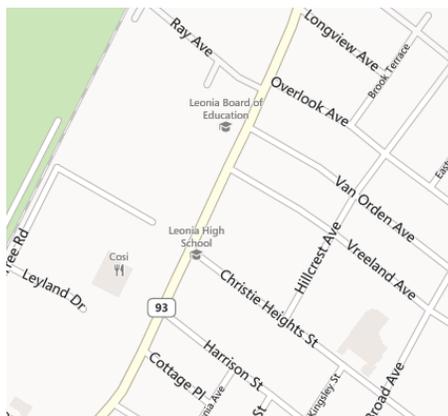
\*Seven Year Medical School Program

## Questions?

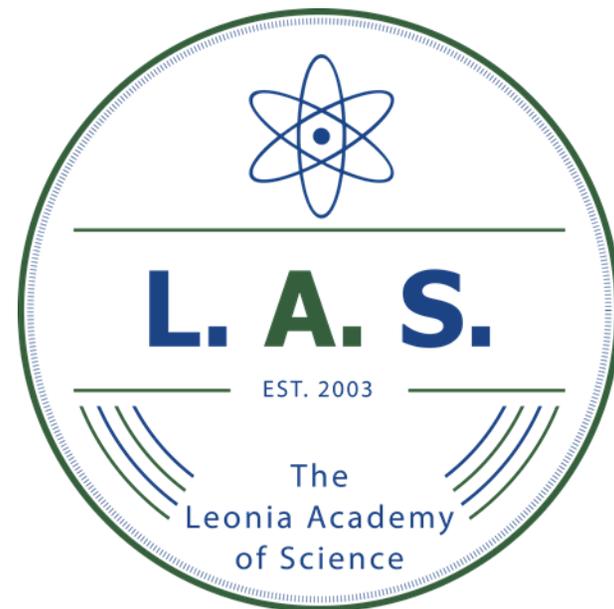
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Brochure designed by Humberto Marcia '13



## Mission Statement

The Leonia Academy for Science (L.A.S.) seeks to enhance the knowledge of its students in the sciences with a rigorous balanced course of study, while specializing in the sciences.

A key component of the Leonia Academy for Science will be senior year externships, which will underscore the overall theme of hands-on experiences for our Academy students.

To apply go to:

[lhs.leoniaschools.org](http://lhs.leoniaschools.org)

Click on Leonia Academies - located on the bottom right side under the Quick Links tab.

# The Leonia Academy of Science

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The Leonia Academy for Science was founded at Leonia High School in September, 2003 for a select company of the district's best students interested in mathematics and science.

The program offered is very demanding; students arriving before 7:00 am each morning to begin the day, finishing at the end of the regular school day. All seniors enrolled in the Academy experience four years of rigorous training, taking honors and Advanced Placement courses in many academic subjects. It is a highly structured program that also features significant enrichment activities including field trips in their freshman, sophomore and junior years.

While there is a strong emphasis on the sciences, the humanities are not neglected. Academy students take the most demanding English, history and world language courses offered. Public speaking is required, for we want our students to possess the knowledge to be leaders in their fields with the poise, confidence and communication skills to express themselves clearly in any situation.

An important element of the Academy program throughout the students' four years is practical application. Field trips during the first three years initiate these experiences. In the senior year, the academy students are required to participate in an externship that will provide them with an in-depth study of a career they wish to explore.

Although their academic load makes great demands, Academy students are encouraged to pursue extracurricular activities. Our goal is to develop well-rounded young people who can think and who respect and value others.

## Admission

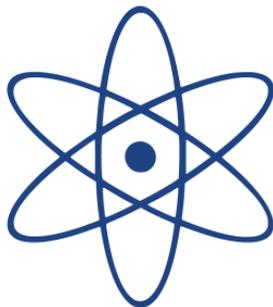
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Students may apply by completing a L.A.S. application at any time until September of their 9<sup>th</sup> grade year. Enrollment is limited. The current 9<sup>th</sup> grade class has a waiting list.

The application process will include:

- A student application and essay
- New Jersey State standardized test results
- Letters of recommendation
- An entrance assessment
- Parent and student interview
- 7<sup>th</sup> and 8<sup>th</sup> grade transcript

\*Transfer students applying after entrance into high school must meet Academy course requirements



## Academy Standards

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By requiring a certain overall GPA, the students must maintain academic success in their overall course of study.

Students accepted into the Academy must maintain a 3.5 GPA in core subjects and a 3.75 GPA in Science classes.

### [Freshman Year Course Overview](#)

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Science courses

- Principles of Chemistry (Honors)
- Principles of Biology (Honors)
- Biology Lab – Double Lab Period
- Chemistry Lab – Double Lab Period

Other Freshman courses

- World Languages – French, Latin, Chinese or Spanish
- World History Honors
- Advanced Algebra II Honors
- Advanced Geometry Honors
- English I Honors
- Leadership Skills in Science

### [Sophomore Year Course Overview](#)

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Science courses

- Advanced Placement (AP) Environmental Science
- Advanced Placement (AP) Biology
- Technical Analysis (1 credit)

Other courses

- Pre-Calculus Honors
- English II Honors
- Advanced Placement (AP) U.S. History I
- World Languages

### [Junior Year/Senior Years Course Overview](#)

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Science Courses

2 of 3 additional AP Science Courses:

- Advanced Placement (AP) Chemistry
- Advanced Placement (AP) Physics 1
- Advanced Placement (AP) Physics 2

Math Courses

2 additional Math courses:

- Calculus
- Advanced Placement (AP) Calculus AB
- Advanced Placement (AP) Calculus BC

Humanities

- (AP) English & Language Composition
- (AP) English & Literature Composition
- Advanced Placement (AP) U.S. History II
- Two years of World Language

\*Physical Education is required for all four years  
\*Students may select non-honors courses in the humanities