



ACADEMY
After
HOURS
...thinking for the future...

2023 Virtual Spring Session Grades 6-8

Classes start March 13, 2023
All courses run for 8 weeks
Two 75-minute classes each week

Courses Offered

- Mock Trial
- Formal Essay Writing, MLA and Research
- Python 101 and 102
- MathCounts Training Camp
- Pre-Algebra Beginner and Advanced
- Geometry

Registration is now
OPEN

Please Note: After the first week of class, there is a \$150 nonrefundable fee and the remaining credit can be applied to a course in the next session if you choose not to remain in that class. After 2 weeks of class, no refunds will be issued.

Enrollment Fee
\$435 per course

About Us

The Virtual Academy After Hours program is an outreach initiative geared toward students in Bergen County and beyond seeking to pursue advanced work in the sciences, humanities, mathematics, and technology. Our VAAH courses are available to all students with skills and abilities that fall within the middle school range (grades 6-8) and are taught by our accomplished faculty members. Due to the skill-based nature of our offerings in mathematics, proper student placement is highly recommended. Please use the placement tests provided to you on the registration site to determine which math course is most appropriate for you. Each course is designed for an optimal student-to-teacher ratio, and is filled on a first-come, first-served basis.

JOIN Academy After Hours TODAY!

To Register → www.bergen.org/aah

 aah@bergen.org

 [@aahours](https://www.facebook.com/aahours)

 [@academyafterhours](https://www.instagram.com/academyafterhours)

Course Descriptions

Mock Trial

Monday & Wednesday @ 4:15-5:30 pm / Grades 6-8

Do you love legal dramas? Gain a better understanding and appreciation of the American legal system by engaging in a simulation of either a criminal or civil law case in the Mock Trial course. Students will develop and refine listening, speaking, reasoning, and analytical skills by preparing both the defense and prosecution positions of an assigned case, assuming the roles of witnesses and lawyers, and enacting a mock trial.

Formal Essay Writing, MLA, and Research

Monday & Wednesday @ 4:15-5:30 pm / Grades 7-8

This course is designed to prepare middle school students for high-school level formal essay writing, using proper MLA formatting and good research practices. Students will be exposed to different types of formal essays such as persuasive, informative, compare/contrast essays, and research papers. They will learn MLA formatting and templates, as well as creating a proper Works Cited. Finally, students will improve their research skills and learn tips to prevent falling victim to media bias and misinformation.

Python 101

Monday & Wednesday @ 4:30-5:45 pm / Grades 6-8

What do YouTube, Dropbox, Google, Spotify, Instagram and Quora all have in common? These projects all made use of a powerful, easy to use language called Python. In this course you will learn the basics of Python and at the completion, will actually be able to write interactive programs.

Python 102

Tuesday & Thursday @ 4:30-5:45 pm / Grades 6-8

In Python 102, we continue the explorations started in Python 101, looking at your first multi-dimensional data structures, such as lists and tuples, and even the beginnings of AI. We will also look at more advanced programming strategies, such as divide and conquer. We will examine the use of algorithms to solve problems efficiently. And we'll even look at the beginnings of AI: by the end of this class you should be able to write a tic-tac-toe program where you can play against the computer, and make the computer unbeatable!

Math Counts Training Camp

Monday & Wednesday @ 5:00-6:15 pm / Grades 6-8

This course prepares the student to enter math competitions held at their school and to join the math team at their school or participate in the MathCounts team at their school. This course teaches advanced methods of how to solve math competition problems in probability, combinatorics, permutations, the Pythagorean theorem, computing areas, and prime numbers.

Pre-Algebra Beginners

Tuesday & Thursday @ 4:30-5:45 pm / Grades 6-7

The content of this course will guide you through among other things integers, fractions, decimals, solving equations and inequalities, ratios, proportions, and percent. This course is recommended for students entering grade 6 and grade 7.

Pre-Algebra Advanced

Monday & Wednesday @ 4:30-5:45 pm / Grades 7-8

The content of this course focuses on algebra concepts such as equations, inequalities, graphs and functions, percent, probabilities, an introduction to geometry and right triangles. This course is recommended for students entering grade 7 and grade 8.

Geometry

Tuesday & Thursday @ 5:00-6:15 pm / Grades 6-8

This course covers selected topics in advanced Geometry helping to prepare the student for further study of geometry at the high school level and introduces the student to some types of geometry problems found on the SAT exam. Topics covered are perimeter and area, parallel lines and perpendicular lines, GeoGebra geometry software, triangles, quadrilaterals, and transformations.

To ensure proper placement in a math course, use the placement tests on the website.

Course Dates

Monday & Wednesdays

March 13, 15, 20, 22, 27, 29 / April 17, 19, 24, 26 / May 1, 3, 8, 10, 15, 17

Tuesday & Thursdays

March 14, 16, 21, 23, 28, 30 / April 18, 20, 25, 27 / May 2, 4, 9, 11, 16, 18

JOIN Academy After Hours TODAY!

To Register → www.bergen.org/aah

✉ aah@bergen.org

📘 @aahours

📷 @academyafterhours



Bergen County Academies

Administration

Russell Davis - Principal

Dr. Raymond Bath - Vice Principal

Giulia Zanoni-Mendelsohn - Supervisor/AAH Coordinator

Michelle Pinke - Supervisor

Board of Education

William Connelly - President

Jason Kim - Vice President

Louis DeLisio - Executive County Superintendent

Ivonne Enrique

Lawrence J. Meyerson

Bergen County Technical Schools Administration

Dr. Howard Lerner - Superintendent

John Susino - Business Administrator/Board Secretary

Andrea Sheridan - Assistant Superintendent

Richard Panicucci - Assistant Superintendent for Curriculum and Instruction

Bergen County Executive

James J. Tedesco III

Bergen County Board of County Commissioners

Thomas J. Sullivan - Chairman

Germaine M. Ortiz - Vice Chairwoman

Dr. Joan M. Voss - Chair Pro Tempore

Mary J. Amoroso, Ramon M. Hache, Sr.,

Steven A. Tanelli, Tracy Silna Zur

