

# 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.

## ENROLLMENT FEE \$415 PER COURSE

**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

## NEED MORE INFORMATION?

Visit our website: <http://www.bergen.org/aah>

Email us at [aah@bergen.org](mailto:aah@bergen.org)

### ALSO CHECK OUR SOCIAL MEDIA!

Facebook: @aahours

Instagram: @academyafterhours



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### BERGEN COUNTY ACADEMIES

#### ADMINISTRATION

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Michelle Pinke - Supervisor

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James J. Tedesco III

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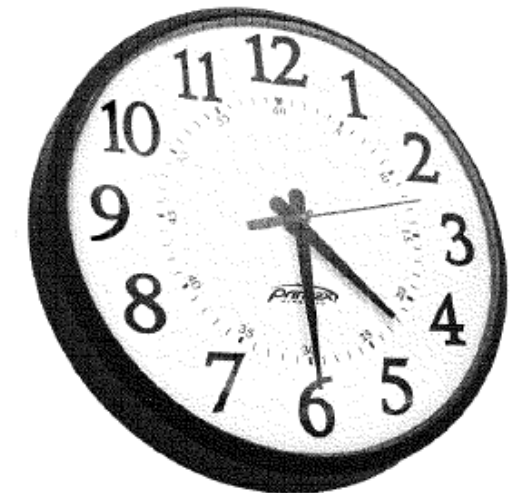
Mary J. Amoroso

Ramon M. Hache, Sr.

Germaine M. Ortiz.

Thomas J. Sullivan

## BERGEN COUNTY ACADEMIES



## ACADEMY After HOURS

*...thinking for the future...*

### 2021 VIRTUAL FALL SESSION

### GRADES 6 - 8

### CLASSES START OCTOBER 4, 2021

### REGISTRATION STARTS SEPTEMBER 8, 2021

### ALL COURSES RUN FOR 8 WEEKS

### TWO 75-MINUTE CLASSES EACH WEEK

# WRITING



## ENHANCE YOUR WRITING!

Recommended for Grades 6 - 8  
Monday/Thursday 5:00-6:15pm

This course is designed for middle school students who wish to improve their writing skills. Focus will be placed on sentence structure, writing with clarity and conciseness, transition words, writing in a formal/professional tone, and the persuasive writing style. Students will be able to develop an improved writing style that incorporates clarity, consistency of content and tone, and the ability to make an impression in a variety of contexts. When possible, lessons will be differentiated to accommodate students of varying abilities using individual outlines and modifications

# MATH



## TO ENSURE PROPER PLACEMENT IN A MATH COURSE,

### USE THE PLACEMENT TESTS ON THE WEBSITE

<http://www.bergen.org/aah>

## PRE-ALGEBRA BEGINNERS

Recommended for Grades 6 - 7  
Tuesday/Thursday 4:30-5:45pm

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

Recommended for Grades 7-8  
Monday/Wednesday 4:30-5:45pm

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

Recommended for Grades 6 - 8  
Tuesday/Thursday 4:30-5:45pm

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

## MATHCOUNTS TRAINING CAMP

Recommended for Grades 6 - 8  
Wednesday/Friday 4:30-5:45pm

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.

# DEBATE



## INTRODUCTION TO POLICY DEBATE

Recommended for Grades 6 - 8  
Wednesday/Friday 4:30-5:45pm

This course is for middle school students interested in learning how to improve their public speaking skills through a fun and engaging medium: debate. Students will first learn about the rules of debate and then be given guidance on how to construct good speeches, supporting arguments, counter-arguments, and more. They will also learn how to find valuable evidence and use it in an organized way to create a solid plan. Through these lessons as well as mock debates, students will improve their speaking skills, confidence, critical thinking abilities, and their writing skills.

# COMPUTER SCIENCE



## PYTHON 101

Recommended for Grades 6 - 8  
Monday/Wednesday 4:30-5:45pm

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

Recommended for Grades 6 - 8  
Tuesday/Thursday 4:30-5:45pm

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!

# COURSE DATES

ALL COURSES ARE OFFERED FOR 8 WEEKS  
CLASSES WILL BE HELD TWO TIMES PER WEEK  
FOR 75 MINUTES EACH

COURSES WILL BE OFFERED ON THE FOLLOWING  
DATES (DETERMINED BY THE DAYS THE COURSE  
MEETS)

## Monday/Wednesday Courses

Oct: 4, 6, 11, 13, 18, 20, 25, 27  
Nov: 1, 3, 8, 10, 15, 17, 29  
Dec: 1

## Monday/Thursday Courses

Oct: 4, 7, 11, 14, 18, 21, 25, 28  
Nov: 1, 4, 8, 11, 15, 18, 29  
Dec: 2

## Tuesday/Thursday Courses

Oct: 5, 7, 12, 14, 19, 21, 26, 28  
Nov: 2, 4, 9, 11, 16, 18, 30  
Dec: 2

## Wednesday/Friday Courses

Oct: 6, 8, 13, 15, 20, 22, 27, 29  
Nov: 3, 5, 10, 12, 17, 19  
Dec: 1, 3

# COURSES AND DAYS



## Monday/Wednesday

(4:30pm - 5:45pm)

Pre-Algebra Advanced  
Python 101

## Monday/Thursday

(5:00pm - 6:15pm)

Enhance Your Writing

## Tuesday/Thursday

(4:30pm - 5:45pm)

Geometry  
Pre-Algebra Beginners  
Python 102

## Wednesday/Friday

(4:30pm - 5:45pm)

MathCounts Training Camp  
Introduction to Policy Debate



# THANK YOU!

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