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 cl;ass, no refunds will be issued

Need more information?

Visit our website: http://www.bergen.org/aah
Email us at aah@bergen.org

Also Check Our Social Media!

Facebook: @aahours
Instagram: @academyafterhours

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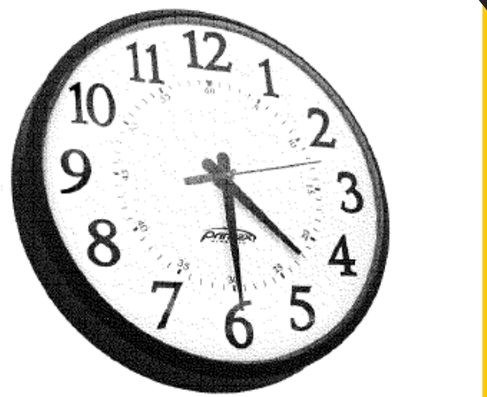
BERGEN COUNTY ACADEMIES



ACADEMY After HOURS

...thinking for the future...

2022 Virtual Spring Session
Grades 6 - 8
Classes Start March 7, 2022
Registration Starts January 25, 2022

All courses run for 8 weeks
two 75-minute classes each week

Writing

Formal Essay Writing, MLA, and Research Basics

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

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.

Math

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

http://www.bergen.org/aah

Pre-Algebra Advanced

Recommended for Grades 7-8
Tuesday/Thursday 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.

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.

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

Non-Routine Problem Solving

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

In this course students will work together in small, collaborative teams on solving problems in a variety of mathematical topics, including number theory, algebra and geometry. Students will learn how techniques such as drawing pictures/diagrams, looking for patterns, solving similar problems or working backwards can be helpful as they solve problems. Each class will cover a topic in mathematics approached from different non-routine problem solving techniques. Students' work will primarily be done collaboratively in breakout rooms, which allows the teacher to easily monitor students' work and progress. Approximately once every two weeks, students will put their skills to the test through a collaborative mathematics competition. This course aims to improve students' problem-solving abilities by tackling challenges that involve creative thinking.

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-dimentional 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 conquor. 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!

Registration Begins January 25!
Visit www.bergen.org/aah to Register!

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

March: 7, 9, 14, 16, 21, 23, 28, 30
April: 4, 6, 18, 20, 25, 27
May: 2, 4

Monday/Thursday Courses

March: 7, 10, 14, 17, 21, 24, 28, 31
April: 4, 7, 18, 21, 25, 28
May: 2, 5

Tuesday/Thursday Courses

March: 8, 10, 15, 17, 22, 24, 29, 31
April: 5, 7, 19, 21, 26, 28
May: 3, 5

Wednesday/Friday Courses

March: 9, 11, 16, 18, 23, 25, 30
April: 1, 6, 8, 20, 22, 27, 29
May: 4, 6

Courses and Days

Monday/Wednesday

(4:30pm - 5:45pm)
Formal Essay Writing, MLA, and Research Basics
Python 101

Monday/Thursday

(4:30pm - 5:45pm)
Non-Routine Problem Solving

Tuesday/Thursday

(4:30pm - 5:45pm)
Geometry
Pre-Algebra Advanced
Python 102

Wednesday/Friday

(4:30pm - 5:45pm)
MathCounts Training Camp

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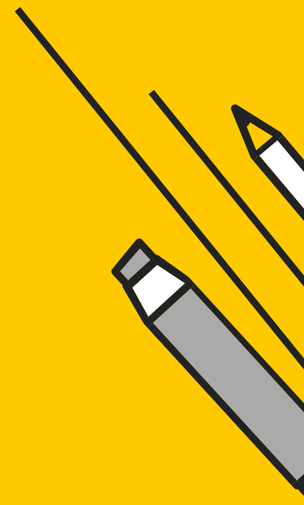

THANK YOU!

Need more information?

Visit our website: http://www.bergen.org/aah
Email us at aah@bergen.org

Also Check Our Social Media!

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