



# ABOUT US

The VAAH High School Program is an outreach initiative geared toward students in Bergen County and beyond seeking to pursue academic enhancement in a variety of fields. Our high school courses are available to all students with skills and abilities that fall within the high school range (grades 9-12) and who are looking to reinforce the knowledge and skills taught in a traditional high school course.

Our high school courses are comprised of a 4-part series from July to May throughout the year. Returning students will be required to register for each part separately. 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. High school courses are noncredit bearing and cannot serve to replace a school course.

## ENROLLMENT FEE

# \$575 EACH PART

**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

Each High School course is part of a 4-part series. There will be a separate registration for Parts 2, 3, and 4.



# BERGEN COUNTY ACADEMIES



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## BERGEN COUNTY ACADEMIES

### ADMINISTRATION

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Giulia Zanoni-Mendelsohn - Supervisor/AAH Coordinator

Michelle Pinke - Supervisor

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James J. Tedesco III

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Mary J. Amoroso

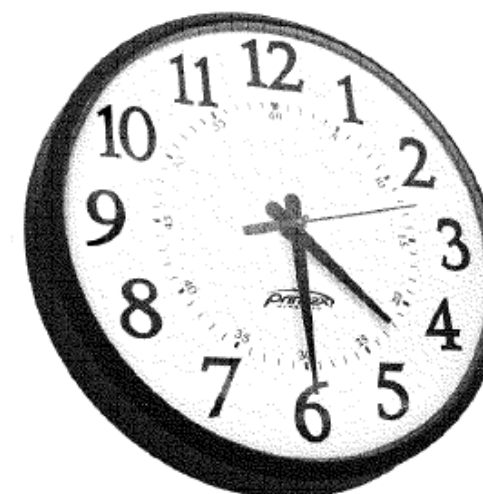
Ramon M. Hache, Sr.

Germaine M. Ortiz.

Thomas J. Sullivan

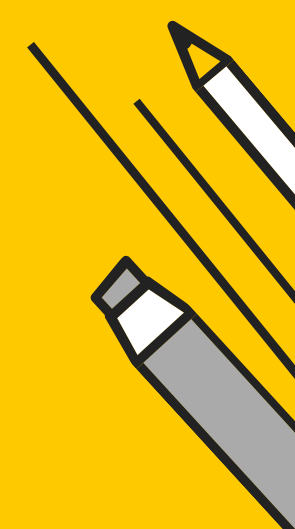


# BERGEN COUNTY ACADEMIES



## ACADEMY After HOURS

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



## 2021 VIRTUAL HIGH SCHOOL SESSION 2

### GRADES 9-12

**CLASSES START OCTOBER 4, 2021**

**REGISTRATION STARTS SEPTEMBER 8 2021**

**ALL COURSES RUN FOR 18 CLASSES**

**EACH CLASS IS 75 MINUTES**



# MATH COURSES

## TO ENSURE PROPER PLACEMENT IN A MATH COURSE, USE THE PLACEMENT TESTS ON THE WEBSITE

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

### ALGEBRA 1 - PART 2

Recommended for Grade 9

Monday/Wednesday 5:00 - 6:15 pm

This course is intended for students who will be taking Algebra I during the upcoming school year, or who have already taken Algebra I and are looking for review and reinforcement. **This course assumes an understanding of all Pre-Algebra topics.** Please take the Algebra I placement test before registering. A score of 70% or higher is recommended to enroll in this course. Course Topics: Real Numbers, Variables and Expressions, Solving Equations, Functions (Linear, Quadratic, Radical and Rational), Inequalities (Solving and Graphing), Systems of Equations and Inequalities, Exponents, Polynomials, Statistics, Probability and Introductory Trigonometry

### ALGEBRA 2 - PART 2

Recommended for Grades 10-11

Monday/Wednesday 4:30-5:45pm

This course is intended for students who will be taking Algebra II during the upcoming school year, or who have already taken Algebra II and are looking for review and reinforcement. **This course assumes an understanding of all Algebra I topics.** Please take the Algebra II placement test before registering. A score of 80% or higher is recommended to enroll in this course. Course Topics: Equations and Inequalities, Relations and Functions, Systems of Equations and Inequalities, Quadratic Functions, Polynomials, Radical Functions, Exponential and Logarithmic Functions, Rational Functions, Conic Sections, Sequences & Series, Trigonometry, Statistics and Probability



### PRE-CALCULUS/TRIGONOMETRY - PART 2

Recommended for Grades 11-12

Thursday/Friday 4:30-5:45pm

This course is intended for students who will be taking Precalculus/Trigonometry during the upcoming school year, or who have already taken Precalculus/Trigonometry and are looking for review and reinforcement. This course assumes an understanding of all Algebra II topics. Please take the Precalculus/Trigonometry placement test before registering. A score of 70% or higher is recommended to enroll in this course. Course Topics: Functions (Power, Polynomial, Rational, Exponential, Logarithmic and Trigonometric), Trigonometric Identities and Equations, Systems of Equations and Matrices, Conic Sections and Parametric Equations, Vectors, Polar Coordinates and Complex Numbers, Sequences and Series, Limits and Derivatives, Statistics

### CALCULUS - PART 2

Recommended for Grades 12

Wednesday/Friday 4:30-5:45pm

This course is intended for students who will be taking Calculus during the upcoming school year, or who have already taken Calculus and are looking for review and reinforcement. **This course assumes an understanding of all Precalculus and Trigonometry topics.** Please take the Calculus placement test before registering. A score of 70% or higher is recommended to enroll in this course. Course Topics: Limits and Continuity, Differentiation, Applications of Derivatives, Integration, Applications of Integrals, Sequences and Series

## CHEMISTRY COURSE

### CHEMISTRY 1 - PART 1

Recommended for Grades 9-12

Tuesday/Thursday 4:15-5:30pm

This course is designed for any student entering high school or in high school. It is a beginner class for those interested in chemistry, preparing to take their 1st chemistry course, or interested in getting better at chemistry material already learned. The topics included in Chemistry I include an introduction to chemistry, the atom, the periodic table, ionic and covalent bonding, and naming compounds.

## COURSE DATES

All courses will begin the week of October 4 and run twice a week for 9 weeks totaling 18 classes. The courses will end the week of December 6. In the event of a class cancellation due to a teacher's absence or holiday, the class will be made up at the end of the session. In the event that a cancellation does occur, students will be notified by email. All 18 classes will be completed by 12/22/21.

All Math Courses being offered in the Fall 2021 session are the second part of the 4 part series. Part 1 is not a prerequisite to taking Part 2 of any class. The Chemistry Course is being offered as Part 1. Future courses in Math and Chemistry will require a subsequent enrollment and payment.

All HS Courses are noncredit bearing courses and cannot replace traditional school courses.

## COURSES DATES

Below you will find all dates that each course will meet

### ALGEBRA 1 AND 2

October: 4, 6, 11, 13, 18, 20, 25, 27

November: 1, 3, 8, 10, 15, 17, 29

December: 1, 6, 8

### CHEMISTRY 1

October: 5, 7, 12, 14, 19, 21, 26, 28

November: 2, 4, 9, 11, 16, 18, 30

December: 2, 7, 9

### CALCULUS

October: 6, 8, 13, 15, 20, 22, 27, 29

November: 3, 5, 10, 12, 17, 19

December: 1, 3, 8, 10

### PRE-CALCULUS/TRIGONOMETRY

October: 7, 8, 14, 15, 21, 22, 28, 29

November: 4, 5, 11, 12, 18, 19

December: 2, 3, 9, 10

## COURSES AND DAYS

### Monday/Wednesday.

(4:30pm - 5:45pm)

Algebra 2

(5:00pm - 6:15pm)

Algebra 1

### Tuesday/Thursday.

(4:15pm - 5:30pm)

Chemistry 1

### Wednesday/Friday.

(4:30pm - 5:45pm)

Calculus

### Thursday/Friday.

(4:30pm - 5:45pm)

Pre-Calculus/Trigonometry

## NEED MORE INFORMATION?

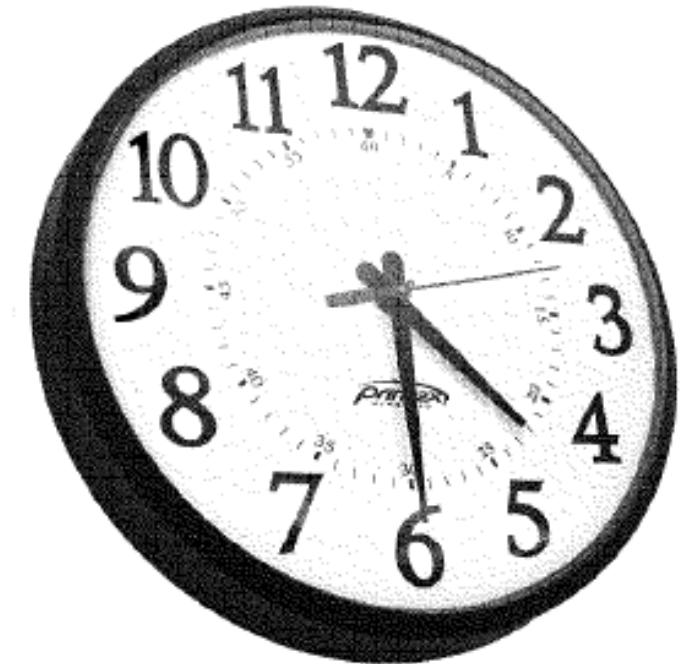
Visit our website: <http://www.bergen.org/aah>

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

### ALSO CHECK OUR SOCIAL MEDIA!

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Instagram: @academyafterhours



ACADEMY  
After  
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*...thinking for the future...*



**THANK  
YOU!**