



# BERGEN COUNTY ACADEMIES

## CLASS OF 2024 PROFILE

ONE CEEB  
310118

### ABOUT US

1120  
STUDENTS



70  
TOWNS

20%  
ACCEPTANCE  
RATE



EXTENDED  
SCHOOL DAY  
8:00-4:10PM

130+

CLUBS AND  
ORGANIZATIONS

17  
SPORTS  
OFFERED



#15

BEST PUBLIC HIGH SCHOOL  
IN AMERICA 2023



STUDENTS ENROLLING  
IN 4-YEAR COLLEGES

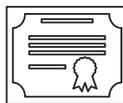
99.5%

NJ DEPT OF ED  
MODEL SCHOOL  
IN THE ARTS



2

U.S. PATENTS  
BASED ON  
IN-HOUSE  
RESEARCH



12

REGENERON/INTEL  
NATIONAL FINALISTS  
SINCE 2010

### CONTACT US

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Russell Davis, Principal

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# WHAT MAKES US SPECIAL?

## RESEARCH

A particularly significant aspect of our research program is that the students select the scientific question that they will be studying and do not receive preliminary data for their projects. The labs at BCA are functional, professional entities not normally found in a high school setting. They include agriscience, mechatronics, optics, nanotechnology, cell/molecular biology (including Next Generation Sequencing and label-free live cell imaging), nano-structural imaging (including a Scanning Electron Microscope (SEM) and Transmission Electron Microscope (TEM)), a Financial Markets Lab (equipped with Bloomberg terminals), and a variety of other research opportunities. Our research program has produced three Presidential Scholars, twelve Regeneron STS Finalists (four in the Top Ten), over 100 Regeneron STS Scholars, multiple Davidson Fellows, several ISEF "Best in Category", numerous publications in peer reviewed journals, a participant in the White House Science Fair, and a patent-the result of original student research.

## PROJECTS

During their first three years at the Academies, students will spend two hours every Wednesday working on an interdisciplinary project. Students have the opportunity to choose a different project each trimester.

## SENIOR INTERNSHIP

All of our seniors devote Wednesdays to a yearlong individualized internship called Senior Experience. Seniors receive nine academic credits for this supervised graduation requirement. Over 150 employers offer experiential learning opportunities in research centers, hospitals, universities, non-profit organizations, government agencies, major corporations and small businesses in the NY/NJ metropolitan area.

## GLOBAL STUDIES

BCA offers an increasingly expanding array of opportunities to participate in international programs with partner schools across the world. Students often collaborate on research projects in advance. Recent destinations include Denmark, Greece, Japan, Israel, Singapore, United Arab Emirates and the UK.

## ELECTIVES

BCA students enrich their education and pursue their interests by selecting from an array of electives in art, humanities, math, research, science, and technology. Students can choose from over eighty elective courses in visual, performing, and culinary arts, music, physics, engineering and robotics, computer science, psychology, business, the study of languages and cultures, agricultural science, biology, and chemistry.

# ACADEMIC INFORMATION

## GRADING

- From March 2020-March 2021 BCA operated remotely
- From March 2021-June 2021 BCA was hybrid and students were given the choice to attend in-person or remotely
- BCA operates on a trimester system and we do not send Trimester 1 grades to colleges until early January
- Students are NOT RANKED because of the selectivity of the admissions process
- GPA's are calculated yearly based on the final grade attained in each course
- GPA is unweighted and includes academic courses only
- 4.0 is the highest possible GPA
- D is the lowest passing grade

## COURSES

- All academic courses are taught at the honors level or above
- All Academy programs far exceed NJ State graduation requirements
- Due to scope and sequence, students in some Academies may not be able to take the "Post AP/IB Courses" listed
- 40 hour community service requirement (over 4 years)

## AP COURSES

AP Art History	AP Microeconomics
AP Biology	AP Music Theory
AP Calculus AB, BC	AP Physics C
AP Chemistry	AP Psychology
AP Computer Science A	AP Statistics
AP Government	AP Studio Art
AP Macroeconomics	

## IB COURSES

IB Economics HL	IB Math SL, HL
IB Environmental Systems SL	IB Business Mgt SL
IB History HL	IB Physics SL
IB World Literature HL	IB Spanish SL, HL
IB Literature / Language HL	IB French SL, HL
IB Computer Science SL	IB Mandarin ab initio, SL

## POST AP/IB COURSES

Advanced Math Topics	Multivariable Calculus
AP Calculus BC+	Organic Chemistry
Data Structures	Advanced Prob Music
Lin Alg/Diff Equation	

# ACADEMY INFORMATION

## AAST-SCIENCE

AAST students take multiple years of biology, chemistry and physics while completing studies in chemical engineering, organic chemistry and modern physics. Graduates from AAST are prepared to continue studies across a wide range of scientific disciplines. AP Chemistry is a requirement of the program. Throughout the curriculum, students are encouraged to find original answers to modern research challenges using the state-of-the-art facilities available on campus.

## ABF-BUSINESS

ABF students take business, finance, marketing, and economics classes as part of their core. Business principles are taught in multiple, high-level core courses which incorporate topics such as: the global business environment, management, marketing, finance, economics and entrepreneurship. ABF has incorporated an emphasis on a global perspective. The driving force behind this global component is the integration of the International Baccalaureate curriculum to an already rigorous course of study.

## ACAHA-CULINARY ARTS AND HOSPITALITY

Students in the Academy for Culinary Arts and Hospitality Administration have a strong interest in culinary arts and restaurant/hospitality management. ACAHA Students are prepared for study in any area by an honors-level core curriculum, augmented by elective options in all facets of food preparation, facility management, customer service, and entrepreneurship. All students take IB Business Management and they may elect to participate in the IB Diploma program.

## AEDT-ENGINEERING

AEDT students study courses in the engineering sciences, including design technology, computer science, manufacturing, electronics, and biomedical engineering. AEDT focuses on general engineering disciplines and prepares students for entrance into college engineering programs. Students in this academy have a concentration in engineering and design courses and focus on skills which are generally useful in any engineering curriculum. Projects include product development, civil or architectural designs, and robotic competitions.

## AMST-MEDICINE

AMST students balance a rigorous science curriculum with scientific research to be best prepared for a future in the medical field. Students learn to design original scientific experiments and carry them out in a high school setting. In addition to advanced level science classes, students take specialized academy-specific courses such as Bioethics, Epidemiology, Pharmacology, Neuroscience, Biotechnology, Anatomy and Physiology, and Introduction to Surgical Techniques.

## ATCS-COMPUTER SCIENCE

ATCS students develop a strong foundational understanding of programming, computer architecture, data structures and algorithms, and program analysis. The program is oriented around underlying ideas that will never become obsolete, even as technologies change. Throughout their careers at BCA, students extend their skills in computing through projects and electives of their choice, often including processor design, web application development, robotics, computer security, and mechatronics. The Senior Capstone is a culmination in which the students work in groups to develop a product for a client.

## AVPA-MUSIC

AVPA Music students have an outstanding ability in music and are some of the strongest musicians in their communities. Students learn woodwind, brass, string and percussion instruments. They study college-level music theory, which includes harmonic analysis, counterpoint, voice leading and ear training. Students also learn current technological and composition techniques in electronic music synthesis where they work with state-of-the-art software.

## AVPA-THEATRE

AVPA Theatre students participate in a rigorous training program for students interested in pursuing a college major in theatre or film leading to a career in some aspect of the entertainment industry. Core courses include sequences in acting, dance, voice and speech, musical theatre, theatre history, theatrical design, dramatic writing, and directing. Students are introduced to a variety of methods most productive for their individual growth.

## AVPA-VISUAL

AVPA Visual students study essential aspects of the visual arts through immersion in a curriculum that embraces new technologies, while emphasizing traditional skills and principles of art and design. The program allows students to pursue their passion in any one of a broad range of arts including graphic and web design, illustration, photography, animation/video, game design, package design, virtual reality, traditional/fine arts, and art history.



# COLLEGE ENROLLMENTS 2020-2023

Amherst College	3	Marist College	1	University of California-Berkeley	11
Arizona State University	1	Massachusetts Institute of Tech	19	University of California-Irvine	2
Babson College	2	Miami University, Oxford	1	University of California-Los Angeles	3
Barnard College	7	Middlebury College	1	University of California-San Diego	4
Bergen Community College	5	Montclair State University	7	University of California-Santa Barbara	1
Binghamton University	3	Montserrat College of Art	1	University of California-Santa Cruz	2
Boston College	12	Muhlenberg College	5	University of Central Florida	1
Boston Conservatory at Berklee	2	Nebraska Wesleyan University	1	University of Chicago	7
Boston University	21	New England Conservatory of Music	1	University of Colorado Boulder	2
Bowdoin College	1	New Jersey Institute of Technology	33	University of Connecticut	6
Brandeis University	3	New York Institute of Technology	2	University of Florida	3
Brown University	7	New York University	44	University of Georgia	2
Bucknell University	2	North Carolina State University	2	University of Illinois	4
California Institute of Technology	2	Northeastern University	47	University of Maryland-College Park	14
California Institute of the Arts	2	Northwestern University	10	University of Massachusetts-Amherst	5
Carnegie Mellon University	16	Nova Southeastern University	1	University of Miami	6
Case Western Reserve University	7	Oberlin College	2	University of Michigan	29
Champlain College	1	Ohio State University	2	University of Missouri	1
Chapman University	1	Pennsylvania State University	10	University of Notre Dame	5
Colby College	1	Point Park University	1	University of Pennsylvania	18
Colgate University	1	Pratt Institute	2	University of Pittsburgh	5
College of the Holy Cross	1	Princeton University	13	University of Rhode Island	2
Columbia College Chicago	1	Purdue University	14	University of Richmond	1
Columbia University	13	Ramapo College of New Jersey	3	University of Rochester	7
Cooper Union	5	Reed College	1	University of South Carolina	2
Cornell University	55	Rensselaer Polytechnic Institute	14	University of South Florida	1
Culinary Institute of America	1	Rhode Island School of Design	8	University of Southern California	13
CUNY Brooklyn College	2	Rice University	6	University of Vermont	2
CUNY John Jay	1	Rider University	2	University of Virginia	2
Dartmouth College	5	Ringling College of Art and Design	1	University of Wisconsin-Madison	5
DePaul University	1	Rochester Institute of Technology	7	Vanderbilt University	11
Drew University	1	Rowan University	5	Vassar College	2
Drexel University	7	Rutgers University-New Brunswick	118	Villanova University	7
Duke University	12	Rutgers University-Newark	7	Virginia Tech	2
Eckerd College	2	San Diego State University	2	Wagner College	1
Elon University	4	School of Visual Arts	1	Wake Forest University	1
Emerson College	4	Seton Hall University	4	Washington and Lee University	1
Emory University	7	Siena College	2	Washington University in St Louis	14
Emory University-Oxford College	1	Skidmore College	2	Wellesley College	3
Fairleigh Dickinson University	2	Smith College	2	Wentworth Institute of Technology	1
Fashion Institute of Technology	1	Southern Methodist University	1	Wesleyan University	2
Florida Southern College	2	St. John's University-New York	1	William & Mary	2
Florida State University	2	Stanford University	4	William Paterson University	2
Fordham University	10	Stevens Institute of Technology	29	Williams College	1
Franklin Olin College	1	Stony Brook University	1	Worcester Polytechnic Institute	3
Georgetown University	11	Swarthmore College	1	Yale University	6
Georgia Institute of Technology	9	Temple University	1		
Grinnell College	1	The Catholic University of America	1	<b>International</b>	
Harvard University	22	The College of New Jersey	5	Bocconi University	2
Hofstra University	2	The George Washington University	11	City University of London	1
Howard University	4	The Juilliard School	3	Durham University	2
Indiana University-Bloomington	3	The New School	3	IE University - Madrid	1
Ithaca College	2	The University of North Carolina	4	International University in Geneva	1
Johns Hopkins University	5	The University of Texas at Austin	10	King's College London	1
Johnson & Wales University	1	Tufts University	12	McGill University	5
Kean University	2	Tulane University	3	NYU Abu Dhabi	1
King's College	1	Union College	3	Universiteit van Amsterdam	1
Lafayette College	1	United States Military Academy	2	University College London	1
Lehigh University	2	University at Buffalo	1	University of Oxford	2
Liberty University	1	University of Arizona	1	University of Ulster	1
				University of Waterloo	1