



# BERGEN COUNTY ACADEMIES

## CLASS OF 2020 PROFILE

ONE CEEB  
310118

### ABOUT US

1100  
STUDENTS



70  
TOWNS

15%  
ACCEPTANCE  
RATE



EXTENDED  
SCHOOL DAY  
8:00-4:10PM

#1 PUBLIC  
HS in NJ



#5 PUBLIC  
HS in USA

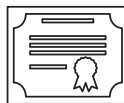
STUDENTS ENROLLING  
IN 4-YEAR COLLEGES

99.6%

NJ DEPT OF ED  
MODEL SCHOOL  
IN THE ARTS



2 U.S. PATENTS  
BASED ON  
IN-HOUSE  
RESEARCH



8 REGENERON/INTEL  
NATIONAL FINALISTS IN  
PAST 9 YEARS

### ONE SCHOOL, SEVEN ACADEMIES

- Academy for the Advancement of Science & Technology (AAST)
- Academy for Business and Finance (ABF)
- Academy for Culinary Arts & Hospitality Administration (ACAHA)
- Academy for Engineering & Design Technology (AEDT)
- Academy for Medical Science Technology (AMST)
- Academy for Technology & Computer Science (ATCS)
- Academy for Visual & Performing Arts (AVPA)

### CLASS OF 2020 STATS

1492 AVERAGE  
SAT  
725 EBRW  
767 MATH

NATIONAL MERIT  
SEMIFINALISTS 29



261  
SENIORS

33 AVERAGE  
ACT

NATIONAL MERIT  
COMMENDED SCHOLARS 140

130+ CLUBS AND  
ORGANIZATIONS

17 SPORTS  
OFFERED



### 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 problems 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, stem cell research, which includes flow cytometry and DNA microarray analysis, the nano-structural imaging lab, which includes a Scanning Electron Microscope (SEM) and Transmission Electron Microscope (TEM), the Financial Markets Lab, equipped with a Bloomberg workstation and a variety of other research opportunities. In the past 11 years of BCA's research program, students have published 19 peer-reviewed scientific papers in scientific journals, and 30 conference papers.

## GLOBAL EXCHANGES

BCA offers an increasingly expanding array of opportunities to participate in global exchanges with partner schools across the world. Students collaborate on research projects and presentations in advance. Recent global exchanges include Japan, Singapore, UK, Hong Kong, Israel, and the United Arab Emirates.

## SENIOR INTERNSHIP

All of our seniors devote Wednesdays to a yearlong individualized internship experience called Senior Experience. Seniors receive (9) academic credits for this supervised graduation requirement. Over two hundred employers offer experiential learning opportunities in research centers, hospitals, universities, non-profit organizations, government agencies, major corporations and large and small businesses in the NY/NJ metropolitan area.

## 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.

## 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.

# ACADEMIC INFORMATION

## GRADING

- 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
- Cumulative GPA is unweighted and includes academic courses only
- 4.0 is the highest possible GPA
- D is the lowest passing grade

## COURSES

- All 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 many Academies may not be able to take the "Post AP/IB Courses" listed

## POST AP/IB COURSES

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

## AP COURSES

AP Art History	AP Micro Economics
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 Macro Economics	

## 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

# ACADEMY INFORMATION

## AAST-SCIENCE

AASST students take multiple years of chemistry and physics while completing studies in chemical engineering, organic chemistry and modern physics particular to AAST. 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. Students 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 study a system-based approach to medicine that allows students to learn the basic sciences in an integrated format. Transdisciplinary projects develop teamwork, communication and presentation skills. In addition to multiple advanced level sciences classes, students take specialized courses such as Medical Science Seminar, Biotechnology, Advanced Topics in Medicine, Anatomy and Physiology and AP science.

## 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.

## AVPA-MUSIC

AVPA Music students have an outstanding ability in music and are some of the strongest musicians in their communities. Digital Keyboarding. 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 and traditional/fine arts, and art history.



# COLLEGE ENROLLMENTS 2017-2019

American University	3	Marist College	1	The George Washington University	3
Amherst College	4	Marymount Manhattan	1	The Ohio State University	2
Babson College	2	Massachusetts Inst of Tech	1	The University of Alabama	1
Barnard College	4	McGill University	4	The University of North Carolina	3
Bates College	1	Miami University, Ohio	2	The University of Scranton	1
Baylor University	1	Middlebury College	1	The University of Tampa	1
Bentley University	1	Montclair State University	5	The University of Texas, Austin	1
Bergen Community College	3	Mount Holyoke College	2	The University of Texas, Dallas	2
Berklee College of Music	1	Muhlenberg College	5	Tufts University	11
Binghamton University	1	New Jersey City University	1	Tulane University	1
Boston College	8	New Jersey Institute of Tech	14	United States Military Academy	2
Boston Conservatory Berklee	1	New York Institute of Tech	1	United States Naval Academy	1
Boston University	19	New York University	35	United States Naval Prep School	1
Brandeis University	2	Northeastern University	49	University College London	1
Brown University	14	Northwestern University	8	University of California, Berkeley	17
Bryn Mawr College	1	Nova Southeastern University	2	University of California, San Diego	8
Bucknell University	2	Nyack College	1	University of Chicago	6
California Institute of Tech	2	Occidental College	1	University of Connecticut	3
Carnegie Mellon University	19	Olin College of Engineering	1	University of Illinois Urbana-Cham	6
Case Western Reserve	1	Pennsylvania State University	8	University of Kansas	1
Colby College	1	Pepperdine University	1	University of Maryland	1
Colgate University	1	Point Park University	1	University of Mass Amherst	1
College of William and Mary	1	Pratt Institute	2	University of Miami	5
Columbia University	17	Princeton University	16	University of Michigan	18
Columbia/Trinity Dual BA	1	Purdue University	2	University of Minnesota	1
Concordia University	1	Ramapo College New Jersey	3	University of Notre Dame	8
Cornell University	40	Rensselaer Polytechnic Inst	5	University of Oxford, UK	2
CUNY-Macaulay Honors	1	Rhode Island School of Design	1	University of Pennsylvania	11
Dartmouth College	2	Rice University	4	University of Pittsburgh	5
Drew University	3	Rider University	1	University of Rhode Island	1
Drexel University	8	Ringling College of Art Design	1	University of Rochester	5
Duke University	5	Rochester Institute of Tech	2	University of Southern California	11
Eastman School of Music	1	Rutgers University-New Bruns	100	University of the Sciences	2
Ecole Hoteliere de Lausanne	1	Rutgers University-Newark	3	University of Toronto	2
Elon University	1	Salve Regina University	1	University of Wisconsin	2
Emerson College	4	Sarah Lawrence College	1	Ursinus College	1
Emory University	14	SCAD	1	Vanderbilt University	6
Fordham University	3	School of Art Institute Chicago	2	Vassar College	2
Georgetown University	5	School of Visual Arts	2	Villanova University	8
Georgia Institute of Tech	8	Seton Hall University	5	Virginia Tech	2
Hampshire College	1	Soka University of America	1	Wagner College	1
Harvard College	10	Stanford University	6	Wake Forest University	1
Haverford College	2	Stevens Institute of Technology	20	Washington and Lee University	1
Hofstra University	1	Stockton University	1	Washington University in St. Louis	6
Howard University	1	Stony Brook University	2	Webb Institute	1
Indiana University	1	SUNY Fredonia	1	Wesleyan University	1
Ithaca College	1	SUNY New Paltz	1	Western Colorado University	1
Johns Hopkins University	3	Swarthmore College	1	Williams College	2
Johnson & Wales University	1	Syracuse University	1	Worcester Polytechnic Institute	1
Lafayette College	2	Temple University	1	Yale University	12
Lehigh University	2	The College of New Jersey	10	Yonsei University	1
Loyola Marymount University	1	The Cooper Union	7	Yonsei University-Underwood	2
Manhattan College	2	The Culinary Institute America	1		

**99.6% OF BCA STUDENTS ENROLL IN 4-YEAR COLLEGES AND UNIVERSITIES**