



BERGEN COUNTY ACADEMIES

CLASS OF 2022 PROFILE

ONE CEEB
310118

ABOUT US

1111
STUDENTS



70
TOWNS

15%
ACCEPTANCE
RATE



EXTENDED
SCHOOL DAY
8:00-4:10PM

#1

BEST PUBLIC HIGH SCHOOL
IN AMERICA 2021



STUDENTS ENROLLING
IN 4-YEAR COLLEGES

99.4%

NJ DEPT OF ED
MODEL SCHOOL
IN THE ARTS



2

U.S. PATENTS
BASED ON
IN-HOUSE
RESEARCH



11

REGENERON/INTEL
NATIONAL FINALISTS IN
PAST 10 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 2022 STATS

259
SENIORS

33
AVERAGE
ACT

NATIONAL MERIT
SEMIFINALISTS 52

1480
AVERAGE
SAT
720 EBRW
760 MATH

130+ CLUBS AND
ORGANIZATIONS

17 SPORTS
OFFERED



CONTACT US

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Russell Davis, Principal

COUNSELING TEAM

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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 12 years of BCA's research program, students have published over 20 peer-reviewed scientific papers in scientific journals, and over 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

- 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.
- In Trimester 3 of 2020, all classes were taught on a pass/fail basis with a pass translated into a grade of 99.
- 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 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

AP COURSES

AP Art History
AP Biology
AP Calculus AB, BC
AP Chemistry
AP Computer Science A
AP Government
AP Macroeconomics

AP Microeconomics
AP Music Theory
AP Physics C
AP Psychology
AP Statistics
AP Studio Art

IB COURSES

IB Economics HL
IB Environmental Systems SL
IB History HL
IB World Literature HL
IB Literature / Language HL
IB Computer Science SL

IB Math SL, HL
IB Business Mgt SL, HL
IB Physics SL
IB Spanish SL, HL
IB French SL, HL
IB Mandarin ab initio

POST AP/IB COURSES

Advanced Math Topics
AP Calculus BC+
Data Structures
Lin Alg/Diff Equation

Multivariable Calculus
Organic Chemistry
Advanced Prob Music

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 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 science classes, students take specialized courses such as Epidemiology, Experimental Design, Pharmacology, Biotechnology, Bioethics, Neuroscience, Zoology, 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. 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 2019-2021

Amherst College	4	Marymount Manhattan College	1	University of California-Los Angeles	2
Arizona State University	1	Massachusetts Institute of Technology	9	University of California-San Diego	4
Babson College	3	Miami University-Oxford	2	University of California-Santa Barbara	1
Barnard College	3	Middlebury College	1	University of California-Santa Cruz	1
Baylor University	1	Montclair State University	4	University of Chicago	4
Bentley University	1	Montserrat College of Art	1	University of Connecticut	6
Bergen Community College	5	Muhlenberg College	4	University of Florida	2
Binghamton University	3	Nebraska Wesleyan University	1	University of Georgia	1
Boston College	18	New Jersey Institute of Technology	18	University of Illinois	4
Boston Conservatory at Berklee	2	New York Institute of Technology	1	University of Maryland	6
Boston University	19	New York University	31	University of Miami	5
Bowdoin College	1	Northeastern University	48	University of Michigan	23
Brandeis University	1	Northwestern University	7	University of Minnesota	1
Brown University	10	Nova Southeastern University	1	University of North Carolina	2
Bucknell University	2	Oberlin College	1	University of Notre Dame	4
California Institute of Technology	2	Ohio State University	1	University of Pennsylvania	11
California Institute of the Arts	1	Pennsylvania State University	10	University of Pittsburgh	4
Carnegie Mellon University	14	Pepperdine University	1	University of Richmond	1
Case Western Reserve University	3	Point Park University	1	University of Rochester	4
Chapman University	1	Pratt Institute	1	University of Scranton	1
Colby College	1	Princeton University	11	University of South Carolina	1
Columbia College Chicago	1	Purdue University-Main Campus	3	University of Southern California	10
Columbia University	13	Ramapo College of New Jersey	3	University of the Sciences	1
Cooper Union	9	Rensselaer Polytechnic Institute	8	University of Vermont	1
Cornell University	45	Rhode Island School of Design	4	University of Virginia	1
Culinary Institute of America	1	Rice University	4	University of Wisconsin	3
CUNY Brooklyn College	1	Ringling College of Art and Design	2	Ursinus College	1
CUNY Macaulay Honors College	1	Rochester Institute of Technology	6	Vanderbilt University	11
Dartmouth College	2	Rowan University	1	Vassar College	1
Drew University	4	Rutgers University-New Brunswick	82	Villanova University	6
Drexel University	11	Rutgers University-Newark	5	Virginia Polytechnic Institute	1
Duke University	7	San Diego State University	1	Wake Forest University	1
Eckerd College	1	School of Visual Arts	1	Washington and Lee University	2
Elon University	2	Seton Hall University	2	Washington University in St Louis	9
Emerson College	4	Siena College	2	Webb Institute	1
Emory University	5	Smith College	1	Wellesley College	1
Fairleigh Dickinson University	2	St. John's University-New York	1	Wesleyan University	3
Florida Southern College	2	Stanford University	4	Western Colorado University	1
Fordham University	8	Stevens Institute of Technology	21	William Paterson University	1
Franklin W Olin College	1	Stony Brook University	2	Williams College	2
George Washington University	7	Swarthmore College	2	Worcester Polytechnic Institute	2
Georgetown University	9	Temple University	2	Yale University	8
Georgia Institute of Technology	7	The College of New Jersey	6	International	
Grinnell College	1	The Juilliard School	2	City University of London	1
Harvard University	21	The New England Conserv of Music	1	Durham University	1
Hofstra University	1	The University of Tampa	1	EHL	1
Howard University	2	The University of Texas at Austin	2	King's College London	1
Indiana University-Bloomington	2	The University of Texas at Dallas	2	McGill University	4
Ithaca College	2	Tufts University	9	NYU Abu Dhabi	1
Johns Hopkins University	2	Tulane University	2	Universita Bocconi	2
King's College	1	Union College	1	Universiteit van Amsterdam	1
Lehigh University	3	United States Military Academy	1	University of Oxford	3
Liberty University	1	University at Buffalo	1	University of Toronto	1
Loyola Marymount University	1	University of California-Berkeley	16	University of Ulster	1
Manhattan College	2	University of California-Irvine	2	Yonsei University-Underwood	2