

Biotechnology High School

Class of 2014 Profile

#1 High School in NJ & #8 in the Nation

(Ranked by US News & World Report, 2013)

Mission Statement

Biotechnology High School, an International Baccalaureate World School, integrates life sciences into a rigorous curriculum that inspires students toward open-minded participation in the global community and prepares students for higher education and leadership in an increasingly demanding workplace, through scholarly research, original investigations, and interactive partnerships.

School & Community

Founded in 2005, Biotechnology High School (BTHS) is one of five Career Academies in Monmouth County Vocational School District (MCVSD). Students admitted to the MCVSD Career Academies, including BTHS, are selected through a highly competitive application and admissions process. BTHS became an IB World School in 2007 and has been accredited by the Middle States Commission on Secondary Schools since its inception.

Biotechnology High School features two state of the art biotechnology labs and a rigorous college preparatory curriculum that includes eight mandatory laboratory science classes. With a programmatic emphasis on research, laboratory skills, critical thinking, problem solving, technology, leadership and teamwork, BTHS provides students with an elite educational experience.

More than 89% of the Class of 2013 selected college majors in biological sciences, physical sciences, engineering or pharmacy. BTHS has articulation agreements with New Jersey universities as well as internship partnerships with many top bio/pharmaceutical companies in the state. All junior and senior students at BTHS are International Baccalaureate (IB) Diploma Candidates.

BTHS Highlights

- 93% of the Class of 2013 earned their IB Diploma
- Ranked as #1 in U.S. News & World Report's "Best High Schools in New Jersey"
- Ranked as #8 in U.S. News & World Report's "Best High Schools in America"
- 18% of BTHS faculty hold a doctoral degree
- Home to 2013 Monmouth County Teacher of the Year
- 98% of freshman achieved Advanced Proficient on the Biology End of Course Assessment
- 40% of the graduating class are National Merit Commended Scholars (finalists to be announced 3/14)
- Jersey Shore Science Fair – 38 Award Winners (6 first place)
- Delaware Valley Science Fair – 13 Award Winners (3 first place)
- American Museum of Natural History Young Naturalist Awards (2 semifinalists)
- Future Farmers of America – 9 National Award Winners (3 first place)



Excellence Is In Our DNA

Curriculum

BTHS classes are taught in a block scheduling format and are either full year or semester long. All core and themed courses, not otherwise designated as AP or IB are taught at an honors level. Beginning in grade 11, all students are IB Diploma Candidates. As IB Diploma Candidates, students are required to take seven IB courses, write a 4,000 word senior thesis, and complete 150 Creativity, Action, and Service (CAS) hours. To earn the IB diploma, students need to achieve superior scores on externally assessed exams, projects and essays.

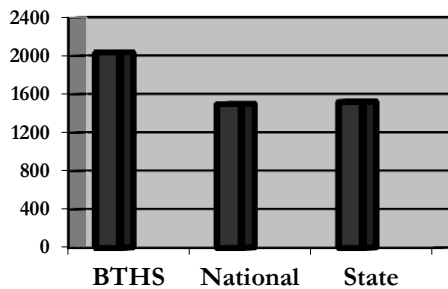
Graduates of BTHS complete 160 credit hours of instruction, including a minimum of 45 credit hours in laboratory sciences and mandatory coursework in leadership and ethics. In addition, each senior completes a science-based, senior internship. Partner sites this year included Columbia University, Rutgers University Department of Biological Sciences, Sloan-Kettering Cancer Center, CSI Technology group and CentraState Medical Center.

Grading System & GPA

The grade point average, computed at the end of each year, is non-weighted and includes all courses. GPAs are based on a 100-point scale system. MCVSD policy prohibits the assignment of rank.

Summary of Test Results - Class of 2013

SAT Average Composite Score Comparison



SAT Reasoning Mean Score Summary

Critical Reading: 662 Math: 694 Writing: 678

ACT Average Composite Score

BTHS: 29.6 State: 23 National: 20.9

IB Assessment Scores

Subject	BTHS Mean	International Mean
Spanish	5.46	5.01
Mathematics	5.19	4.45
Biology	5.62	4.34
Chemistry	3.98	4.54
Physics	5.17	4.66
English	5.23	5.06
History	5.14	4.62

College Matriculation - Class of 2013

100% of the Class of 2013 enrolled in four-year colleges/universities

Arcadia University
 Boston College
 Boston University
 Brown University
 Bryn Mawr College
 Carnegie Mellon University (2)
 Case Western Reserve University
 Clark University
 Colorado State University
 Columbia University
 Dickinson College
 Drexel University (2)
 Fordham University
 George Washington University
 Georgetown University
 Georgia Institute of Technology

Hamilton College
 James Madison University (3)
 Johns Hopkins University (2)
 Lafayette College
 Louisiana State University
 Monmouth University (2)
 Oxford College of Emory University
 New Jersey Institute of Technology
 Pepperdine University
 Rochester Institute of Technology
 Rutgers University (16)
 Stevens Institute of Technology (2)
 The College of New Jersey (6)
 University of Medicine and Dentistry of NJ

Union College
 United States Air Force Academy
 University of Chicago
 University of Delaware
 University of Hawaii
 University of Maryland (2)
 University of Miami (2)
 University of North Carolina at Chapel Hill
 University of New Hampshire
 University of Pennsylvania (5)
 University of Rochester
 University of Vermont
 Vanderbilt University
 Villanova University (4)
 Virginia Polytechnic Institute & State University
 Yale University

The Monmouth County Vocational School District does not discriminate on the basis of race, creed, color, national origin, ancestry, age, marital status, affectional or sexual orientation, gender, religion, disability, or socioeconomic status.



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