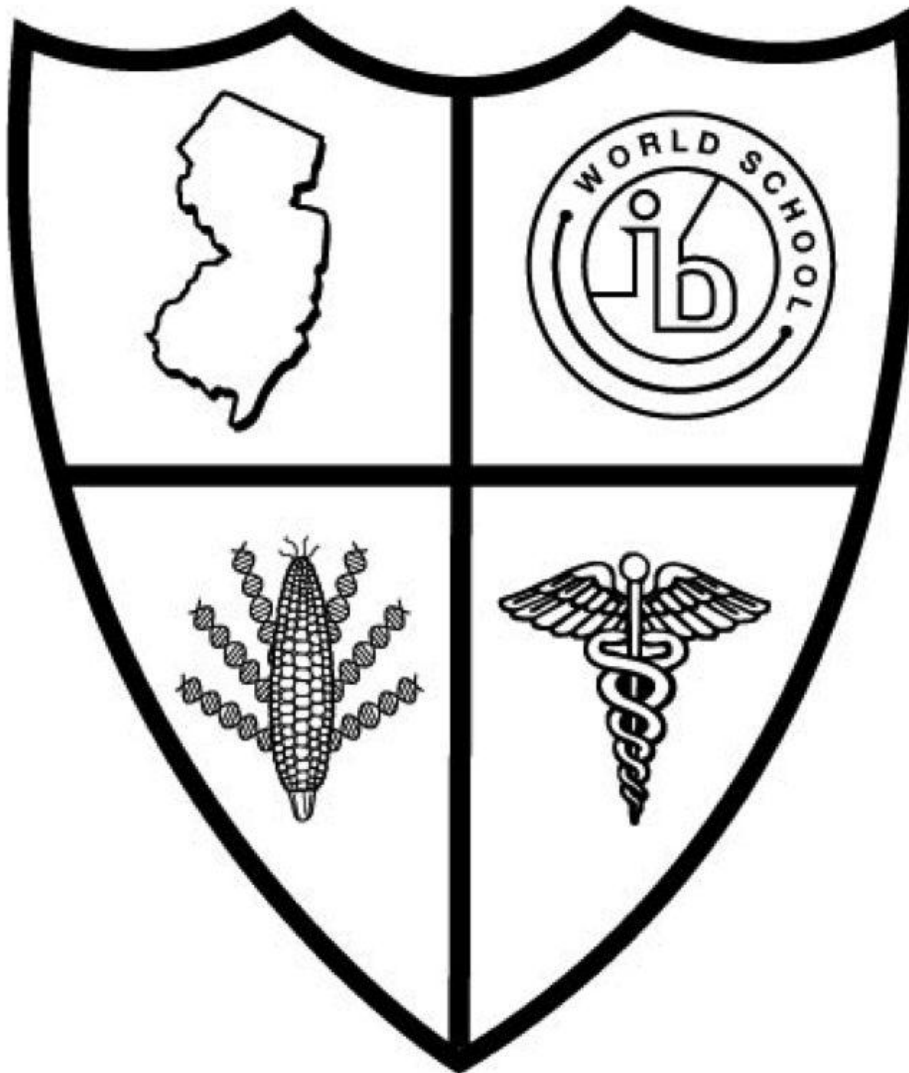


Biotechnology High School

Monmouth County Vocational School District

Prospectus 2018-2019



5000 Kozloski Road
Freehold, New Jersey 07728
732-431-7208
bths.mcvsd.org

Caring

Balanced

Communicators

Inquirers

Knowledgeable

Open-minded

Principled

Reflective

Risk-Takers

Thinkers

An International Baccalaureate World School

"Excellence is in our DNA"

Biotechnology High School

5000 Kozloski Road
Freehold, NJ 07728

Phone: 732-431-7208

Fax: 732-431-1395
bths.mcvsd.org

Sean Meehan
Principal

Monmouth County Board of Chosen Freeholders

Thomas A. Arnone
Director

Lillian G. Burry
Deputy Director

John P. Curley
Patrick Imprevuduto
Gerry P. Scharfenberger, Ph.D.

Monmouth County Vocational School District Board of Education

Clement V. Sommers
President

Dennis Ingoglia
Vice President

Joseph A. Manfredi
Brian D. McAndrew, Ed.D.
Lester W. Richens, Ed.D.

Monmouth County Vocational School District Central Office Administration

Timothy M. McCorkell
Superintendent of Schools

Charles R. Ford, Jr., Ed.D.
Assistant Superintendent

Collette Flatt
School Business
Admin. / Board Secretary

Joseph Senerchia
Director of School
Counseling Services

Kelly Harmon
Assistant Principal of
Curriculum & Instruction

Mission Statement

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



School & Community

The Monmouth County Vocational School District (MCVSD) prepares students for an evolving workplace, lifelong learning, and further education. Biotechnology High School (BTHS), an International Baccalaureate (IB) World School, is one of MCVSD's five Career Academies. BTHS students are selected through a highly competitive application and admissions process. The school population represents a cross section of students from more than thirty resident districts throughout Monmouth County. BTHS provides students with an exceptional educational experience through a college preparatory curriculum emphasizing research, laboratory skills, critical thinking, problem solving, technology, leadership, and teamwork. BTHS is the only high school in New Jersey in which 100% of students are IB Diploma Candidates. Universities worldwide recognize IB as a rigorous high school program that provides excellent preparation for post-secondary success.

BTHS is a close-knit and supportive learning community of approximately 320 high-achieving students and 28 dynamic faculty members. The facilities and equipment at BTHS are state of the art, including two full biotechnology labs, a tissue culture lab, and several 3D printers. The one-hour lunch/activity period allows students to be involved in a wide range of co-curricular activities, while also providing time to work individually with teachers, collaborate on group projects, and socialize with peers. BTHS employs a shared leadership model that involves all students in the management of the school community. Student clubs/organizations at BTHS include: Arts & Entertainment, Junior State of America (JSA), and Technology Student Association (TSA). BTHS does not offer sports, although many students participate in athletics at the high schools in their sending districts.

BTHS has an active Parent-Student-Faculty Association (PSFA) that provides the school with financial support for co-curricular programs, hospitality for community events, teacher grants, and student scholarships. BTHS also benefits from the involvement of its Advisory Board. The board includes members from both industry and higher education who work closely with staff on curriculum development, equipment selection, and in the procurement of grants and student internships.

Curriculum

BTHS operates on an alternating day, four period block schedule in which classes meet for 82 minutes two or three times per week. Courses are either full-year (5 credits) or semester-long (2.5 credits). All core and themed courses, not otherwise designated as AP or IB, are taught at an honors level. Beginning in grade 11, all students become IB Diploma Candidates. As IB Diploma Candidates, students are required to take seven IB courses, write a 4,000 word senior thesis, and complete Creativity, Action, and Service (CAS) requirements. To earn the IB diploma, students need to achieve superior scores on externally assessed exams, projects, and essays.

BTHS students complete 160 credit hours of instruction, including a minimum of 45 credit hours in laboratory sciences and mandatory coursework in leadership and ethics. Additionally, each student completes a science-based senior internship. Partner sites include: Freehold EMS, Monmouth Medical Center, NJ Sharing Network, Robert Wood Johnson University Hospital, and Rutgers University.

Grading System & GPA

In accordance with MCVSD Board of Education policy, students are not ranked. The grade point average, computed at the end of each year, is unweighted and includes all courses. GPAs are based on a 100-point scale.

Non-Discrimination Clause: *The Monmouth County Vocational School District does not discriminate on the basis of race, creed, color, national origin, ancestry, nationality, marital or domestic partnership or civil union status, sex, pregnancy, gender identity or expression, affectional or sexual orientation, reprisal or retaliation for prior civil rights activity, religion, age, disability, or socioeconomic status.*

"Excellence is in our DNA"

- ★ Recognized by the US Department of Education as a National Blue Ribbon School in 2014
- ★ Ranked as #4 in US News & World Report's "Best High Schools in New Jersey 2018"
- ★ Ranked as #3 in NJ.com's "New Jersey High Schools with the Best SAT Score 2018"
- ★ 100% of faculty members are highly qualified; 16% hold a doctoral degree



Class of 2018 Highlights	2017-18 Achievements
<ul style="list-style-type: none"> ★ 80 students in the graduating class ★ 100% attending a four-year college or university ★ 96% earned an IB Diploma ★ 96% pursuing a STEM-related major ★ 459 college acceptances ★ 9 National Merit Finalists, 37 Commended ★ 23 Rutgers Presidential Scholars ★ \$18,730,736 institutional merit aid offered 	<ul style="list-style-type: none"> ★ Delaware Valley Science Fair (13 winners, 2 first place) ★ FFA National Convention (1st in Agriscience Fair) ★ Governor's STEM Scholars (4) ★ Intel Science and Engineering Fair (1 finalist) ★ Jersey Shore Science Fair (26 winners, 7 first place) ★ National TSA Conference (2nd in Scientific Visualization) ★ New Jersey Academy of Sciences (1 winner) ★ NJ Junior Science & Humanities Symposium (2 finalists)

Test Score Summary

IB Subject	BTHS Mean	Worldwide Mean
Biology	5.61	4.34
Chemistry	3.98	4.45
English	5.54	4.99
History	5.50	4.54
Math	5.10	4.26
Physics	4.46	4.64
Spanish	5.90	5.07

SAT Mean Score: 1505	
SAT Middle 50%	
Reading/Writing	700 - 760
Mathematics	720 - 790
Total	1420 - 1550

ACT Mean Score: 32.4	
ACT Middle 50%	
Composite	30 - 35

Molecular Biology SAT II

BTHS Average Score – 760
National Average Score – 648

IB Biology HL Exam

55% of BTHS students scored a 6 or 7
(compared to 27% worldwide)

Perfect SAT II Scores

38 Total
18 Biology | 1 Chemistry | 15 Math | 4 Physics

College Matriculation 2009-2018

Albany College of Pharmacy and Health
American University
Amherst College
Arcadia University
Australian National University
Bard College
Barnard College
Bentley University
Binghamton University
Boston College
Boston University
Brandeis University
Brookdale Community College
Brown University
Bryn Mawr College
Bucknell University
California Polytechnic State University
University of California, Berkeley
University of California, Los Angeles
University of California, San Diego
University of California, Santa Cruz
Carnegie Mellon University
Case Western Reserve University
College of Charleston
University of Chicago
Christopher Newport University
Clark University
Clemson University
Colgate University
Colorado State University
Columbia University
University of Connecticut
The Cooper Union
Cornell University
Culver-Stockton College
Dartmouth College
Delaware Valley University
University of Delaware
Denison University
Dickinson College
Drew University
Drexel University
Duke University
Elon University
Emerson College
Emory University
Fairleigh Dickinson University
Florida Institute of Technology
University of Florida
Fordham University
The George Washington University
Georgetown University
Georgia Institute of Technology
University of Georgia

Gettysburg College
Hamilton College
University of Hartford
Harvard University
Haverford College
University of Hawaii at Manoa
Hofstra University
IE University - Segovia
Indiana University at Bloomington
James Madison University
Johns Hopkins University
Kean University
University of Kentucky
Lafayette College
Lehigh University
Louisiana State University
University of Maine
Marist College
University of Mary Washington
Univ. of Maryland, Baltimore County
University of Maryland, College Park
Massachusetts Institute of Technology
University of Massachusetts, Amherst
McGill University
Mercyhurst University
Messiah College
University of Miami
Michigan State University
University of Michigan
Mississippi State University
Monmouth University
Montclair State University
Muhlenberg College
Univ. of New Hampshire at Durham
New Jersey Institute of Technology
The College of New Jersey
New York Institute of Technology
New York University
Univ. of North Carolina at Chapel Hill
Northeastern University
Northwestern University
University of Notre Dame
Nova Southeastern University
Ohio Northern University
The University of Oklahoma
Pennsylvania State University
University of Pennsylvania
Pepperdine University
University of Pittsburgh
Point Park University
Pomona College
Pratt Institute
Princeton University
Purdue University
Quinnipiac University

Ramapo College of New Jersey
Reed College
Rensselaer Polytechnic Institute
University of Rhode Island
Rice University
University of Richmond
Rochester Institute of Technology
University of Rochester
Rollins College
Rowan University
Rutgers University-New Brunswick
Saint Louis University
Sarah Lawrence College
Univ. of the Sciences in Philadelphia
Seton Hall University
Skidmore College
University of South Carolina
University of Southern California
St. Bonaventure University
Stanford University
State Univ. of New York at New Paltz
Stevens Institute of Technology
Stockton University
Stony Brook University
SUNY College at Geneseo
Swarthmore College
Syracuse University
The Ohio State University
Tulane University
Union College (New York)
United States Air Force Academy
United States Military Academy - Army
University College London
Ursinus College
Vanderbilt University
Vassar College
University of Vermont
Villanova University
Virginia Commonwealth University
Virginia Tech
University of Virginia
Wagner College
Washington University in St. Louis
University of Washington
Wesleyan University
West Chester University
Wheaton College
Widener University
College of William and Mary
Worcester Polytechnic Institute
Yale University
Yeshiva University
York College of Pennsylvania
Youngstown State University