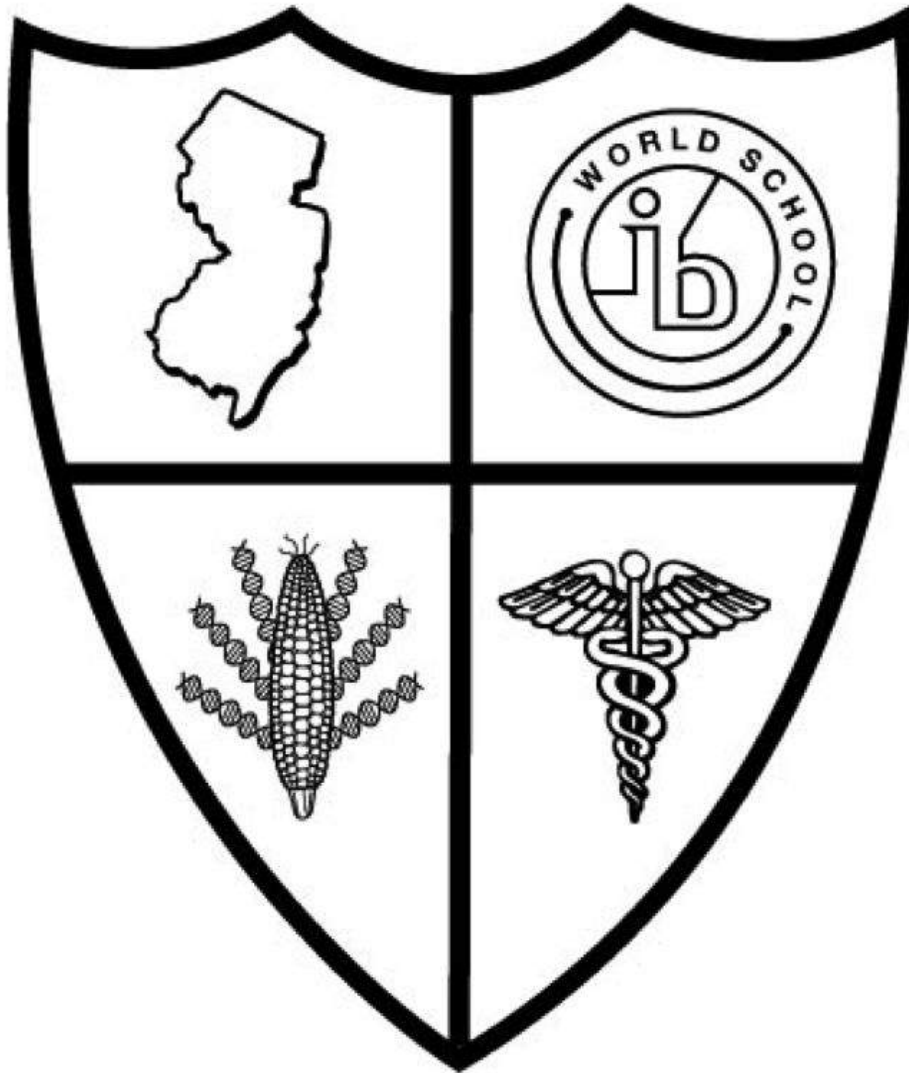


Biotechnology High School

Monmouth County Vocational School District

Prospectus 2016-2017



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

Biotechnology High School

5000 Kozloski Road
Freehold, NJ 07728

Phone: 732-431-7208
Fax: 732-431-1395
bths.mcvsd.org

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Principal

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Admin. / Board Secretary

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Director of School
Counseling Services

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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

Biotechnology High School (BTHS), an International Baccalaureate (IB) World School, is one of five Career Academies in the Monmouth County Vocational School District (MCVSD). Students admitted to the MCVSD Career Academies 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.

Biotechnology High School is a close-knit and supportive learning community of approximately 320 students and 27 world-class 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 over 20 clubs and 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. Clubs/organizations at BTHS include: Technology Student Association (TSA), National FFA Organization, and Junior State of America (JSA).

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 classes are taught in a block-schedule format and are either full-year or semester-long. Teachers deliver creative lessons in which student-learning objectives are tightly linked with hands-on activities. Classroom learning is extended through the use of technology, guest speakers, and field trips. 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 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.

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 AT&T, Clean Ocean Action, Johnson & Johnson, Memorial Sloan Kettering Cancer Center, 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 system.

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 #2 in US News & World Report's "Best High Schools in New Jersey 2016"
- Ranked #14 in Newsweek's "America's Top High Schools 2016"
- 100% of faculty members are highly qualified; 19% hold a doctoral degree



Highlights Class of 2016 (72 students)	Achievements 2015-16 School Year
<ul style="list-style-type: none"> • 95% earned an IB Diploma • 81% pursuing a STEM-related major • 469 college acceptances • 17 National Merit Semifinalists • 29 Rutgers Presidential Scholars • \$18,873,358 institutional merit aid offered • 4 US Presidential Scholar Semifinalists 	<ul style="list-style-type: none"> • Governor's STEM Scholars (2) • Monmouth Junior Science Symposium (1 presenter) • Jersey Shore Science Fair (39 winners, 7 first place) • Delaware Valley Science Fair (10 winners, 1 first place) • FFA National Convention (10 medalists, 2 first place) • National TSA Conference (2 qualifying teams) • JSA Mid-Atlantic Conference Best Speaker Awards (6)

Summary of Test Results - Class of 2016

SAT/ACT Mean Score Comparison			
Test	BTHS	US	NJ
SAT	2110	1484	1501
ACT	31.7	21	23.1

SAT Reasoning Score Summary		
Section	Mean	Mid 50%
Reading	696	650-760
Math	712	660-760
Writing	702	660-750
Total	2110	1970-2270

IB Assessment Mean Scores		
Subject	BTHS	Worldwide
Biology	5.65	4.32
Chemistry	4.00	4.47
English	5.46	5.05
History	5.84	4.67
Math	5.64	4.38
Physics	3.79	4.60
Spanish	5.77	5.07

Molecular Biology SAT II

BTHS Average Score – 723
National Average Score – 652

IB Biology HL Exam

58% of BTHS students scored a 6 or 7
(compared to 22% worldwide)

Perfect SAT I Section Scores

23 Total
11 Reading, 9 Math, 3 Writing

College Matriculation 2009-2016

Albany College of Pharmacy
 American University
 Amherst College
 Arcadia University
 Australian National 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
 Cornell University
 Dartmouth College
 Delaware Valley College
 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
 George Washington University
 Georgetown University
 Georgia Institute of Technology
 The University of Georgia
 Gettysburg College
 Hamilton College
 University of Hartford
 Harvard University
 Haverford College
 University of Hawaii at Manoa
 Indiana University
 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
 University of Maryland, Baltimore County
 University of Maryland, College Park
 University of Massachusetts, Amherst
 McGill University
 Mercyhurst University
 Messiah College
 University of Miami



Michigan State University
 University of Michigan
 Monmouth University
 Montclair State University
 Muhlenberg College
 University of New Hampshire
 New Jersey Inst. of Technology
 The College of New Jersey
 New York Inst. of Technology
 New York University
 University of North Carolina at Chapel Hill
 Northeastern University
 Northwestern University
 University of Notre Dame
 Ohio Northern University
 The Ohio State University
 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
 Rensselaer Polytechnic Institute
 Rice University
 Richard Stockton College
 University of Richmond
 Rochester Institute of Technology
 University of Rochester
 Rowan University
 Rutgers University
 Saint Louis University
 Sarah Lawrence College
 University of Sciences in Philadelphia
 Seton Hall University
 Skidmore College
 University of South Carolina
 University of Southern California
 Stanford University
 State University of New York
 Stevens Institute of Technology
 Stockton College
 Stony Brook University
 Swarthmore College
 Syracuse University
 Tulane University
 Union College
 US Air Force Academy
 US Military Academy at West Point
 University College London
 Ursinus College
 Vanderbilt University
 Vassar College
 University of Vermont
 Villanova University
 University of Virginia
 Virginia Commonwealth University
 Virginia Polytechnic Institute
 Wagner College
 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