

GENERAL INFORMATION

- All eighth grade students in Hunterdon County are eligible to apply. Out-of-county students will be considered based on availability of seats.
- Acceptance into the program will be based on placement test scores, attendance, discipline records, 7th & 8th grade transcripts, and an interview.
- Students will be bused from their home or designated area to North Hunterdon High School (NHHS), where the program is held. Students should coordinate transportation services through their home school.
- The Academy program is designed for students to attend NHHS the entire day and for all four years of high school.
- Each BSA class is equivalent to one 55-minute class on regular class days, and a 75-minute class on lab days, within a rolling block schedule.
- There are no fees for this program. The start up costs have been covered by grant funds and tuition is charged to the home school.
- After completing all the courses and academics necessary for graduation, students will graduate from the Biomedical Sciences Academy (BSA).
- BSA is not a substitute for the NJ State math and science graduation requirements.
- Students will be eligible to earn college credits from at least one or more NJ colleges. Colleges may require a discounted tuition fee.

FOR MORE INFORMATION

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BSA.HCVSD.ORG |  @BioSACADEMY

EQUAL OPPORTUNITY | AFFIRMATIVE ACTION STATEMENT
It is the policy of the Hunterdon County Vocational School District not to discriminate on the basis of race, color, creed, age, religion, sex, ancestry, marital or familial status, affectional or sexual orientation, national origin, social or economic status, disability, or liability for service in the Armed Forces of the United States in the education programs or activities and employment policies as required by Title IX of the Educational Amendments of 1972 and N.J.A.C. 6:4-1.1 et. Seq. Inquiries regarding compliance may be directed to our Affirmative Action Office at 908-284-1444 ext. 2203.



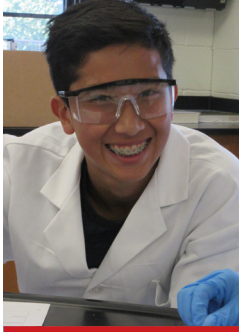
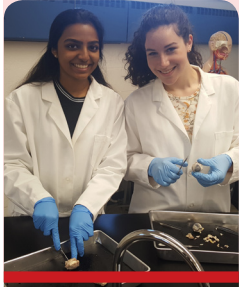
DID YOU KNOW?

Employment of biomedical engineers is projected to **grow 23% from 2014 to 2024**, much faster than the **7%** average for all other occupations.



HUNTERDON COUNTY VOCATIONAL SCHOOL DISTRICT
BIOMEDICAL SCIENCES

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BIOMEDICAL SCIENCES ACADEMY

The Biomedical Sciences Academy (BSA) is a full-time career and technical high school housed at North Hunterdon High School. The BSA employs a rigorous, highly focused four-year program for students with career interests in biomedical sciences. The curriculum combines resources from multiple colleges and universities, as well as selected activities from Project Lead the Way. This program provides students with exposure to concepts of human medicine, physiology, genetics, microbiology, and public health through engaging real-world applications and experiences. Students can earn up to 19 college credits from Rutgers School of Health Professions, Georgian Court University, and Raritan Valley Community College. Students will also have the opportunity to earn First Aid and CPR certifications.



The HCVSD Academy model offers a unique and comprehensive approach to career and technical education. Students enroll in four years of a cohesive curriculum that provides multiple opportunities for students to earn college credits while in high school. Students participate in structured learning experiences such as internships and mentorships that are relevant to their intended college and career pathways. Additionally, students participate in career-focused extracurricular student organizations, exposing students to both local and national competitions, as well as scholarship opportunities.

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BSA I
 In the introductory course of the Biomedical Sciences program, students explore concepts of biology, medicine, and the scientific method using forensics, laboratory experiments, patient scenarios, and analysis of Science Journal articles. Students study genetics, diabetes, and heart dysfunction. Students perform an in-depth study of healthcare careers, history, and medical ethics using textbook coursework and guest speakers. Students learn about the core elements that define health policy with an emphasis on ethics, implementation of policy, and the dynamics of the policy-making process.

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BSA II
 Students are introduced to Anatomy & Physiology and Medical Terminology in a blended format. Students explore science in action, building organs and tissues on a skeletal Maniken, and use data acquisition software to monitor body functions such as muscle movement, reflex, heart function, and respiration. Students utilize experiments, case studies, and patient histories to explore disease states. Students play the role of biomedical professionals to solve real-world medical cases.

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BSA III
 Students complete the Anatomy & Physiology/Medical Terminology blended course. Students use experiments to explore the areas of oncology and immunology. They use patient scenarios, patient and family histories, and medical lab reports to assess, diagnose, and treat patients with diseases in the areas of oncology and immunology. Students screen and evaluate code in human DNA using national databases.

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BSA IV
 In the final year students will design innovative solutions for the most pressing health and science challenges of the 21st century. This course provides students with a basic understanding of what clinical research is and the scientific principles on which it is based. Students address topics ranging from public health to biomedical engineering to clinical medicine and physiology. They also have an opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.