



HUNTERDON COUNTY VOCATIONAL SCHOOL DISTRICT

ENVIRONMENTAL SCIENCES



THE RENEWABLE ENERGY INDUSTRY GENERATED 2.3 MILLION JOBS GLOBALLY LAST YEAR

GENERAL INFORMATION

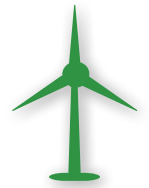
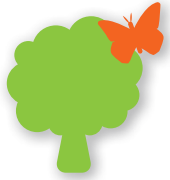
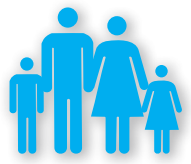
- All eighth grade students in Hunterdon County are eligible to apply. Out-of-county students will be considered based on availability of seats.
• Acceptance into the program will be based on placement test scores, attendance, discipline records, 7th & 8th grade transcripts, and an interview.
• Students will be bused from their home or designated area to Voorhees High School (VHS) where the program is held. Students should coordinate transportation services through their home school.
• The Academy program is designed for students to attend VHS the entire day and for all four years of high school.
• Each ESEA class is equivalent to one 55-minute class 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 Environmental Sustainability and Engineering Academy.
• 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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ESEA.HCVSD.ORG | Facebook icon @EnvSACADEMY

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, religions, 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.



ESEA.HCVSD.ORG

ENVIRONMENTAL SUSTAINABILITY & ENGINEERING ACADEMY

The Environmental Sustainability & Engineering Academy (ESEA) is a full-time career and technical high school housed at Voorhees High School. The ESEA is the county's first four-year academy that focuses on renewable and sustainable energy in concert with environmental engineering. The curriculum of the ESEA infuses and aligns with Centenary University's curriculum and Project Lead the Way's nationally recognized Engineering curricula. This program provides students with exposure to engineering principles, resource management and policy development, sustainable resource management, and principles of renewable energy. Students in the ESEA can earn up to 18 college credits from Centenary University.



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.



9

ESEA I

This introductory course explores sustainable environmental practices through the lens of natural resource management. Students participate in hands-on labs to study wildlife, forestry, aquatics, soil compositions, and agricultural systems. Students are challenged to consider social, economic, and environmental consequences to determine best sustainable environmental practices. This course utilizes principles from the CASE curriculum and input from environmental professionals to give students the necessary skills for a career in natural resource management.

10

ESEA II

Students are introduced to concepts of environmental engineering and use the engineering design process to research and develop solutions to global environmental issues, such as clean drinking water, stable food supply, and renewable energy. Students will perform scientific inquiry and utilize collegiate research techniques to collaborate on various projects. Students will produce an in-depth implementation plan that uses computer models to propose solutions to real-world environmental issues.

11

ESEA III

In the third year, students take the AP Environmental Science course and are eligible to obtain college credits from Centenary University. Students explore human impact on the planet through a strong focus on air quality, air pollution, waste management, and climate change. Environmental professionals assist students in using industry-standard tools, techniques, and equipment to conduct field sampling and analysis. Students also develop interviewing and resume-writing skills.

12

ESEA IV

In the final year, students develop professional competencies aligned with personal interests to gain real-world experience as volunteers, interns, or researchers in the environmental field. Students will study concepts of environmental law and policy and evaluate socioeconomic consequences of environmental political issues. Students are required to complete a capstone project on an environmental topic of their choosing.