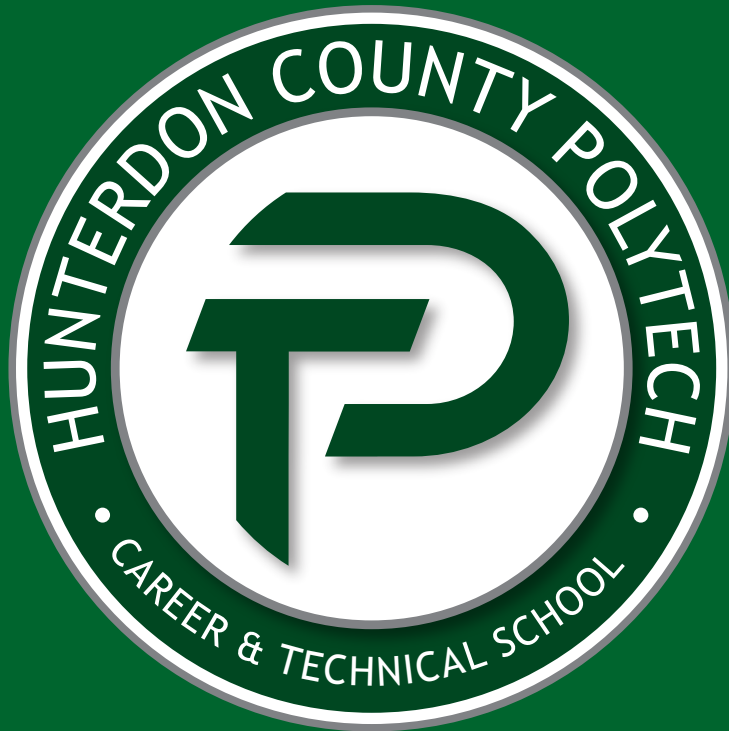


HUNTERDON COUNTY VOCATIONAL SCHOOL DISTRICT



**2021-2022**  
High School Program Guide

**[POLYTECH.HCVSD.ORG](http://POLYTECH.HCVSD.ORG)**

Hunterdon County Polytech is a shared-time high school that exclusively offers career and technical education programs for all high school students. Polytech operates under the umbrella of Hunterdon County Vocational School District which also offers an Adult and Continuing Education school and three full-time high school academies.

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**MISSION STATEMENT**

Hunterdon County Polytech provides career and technical education in a positive student-centered environment where all students are able to reach their full potential.

**PHILOSOPHY**

Polytech is committed to offering a hands-on, work-based, shared-time high school education that will prepare students for post-secondary educational opportunities or immediate entry into the workforce. Our students work with state-of-the-art technology and equipment and receive hands-on training in a variety of fields. Students create portfolios for college, gain valuable industry experiences and credentials, and develop career skills before leaving our programs. Students can gain leadership skills through the National Technical Honor Society and National Art Honor Society and have the opportunity to compete in state and national competitions through SkillsUSA, Family Career and Community Leaders of America (FCCLA), HOSA Future Health Professionals, and FFA. Polytech works closely with local businesses, industries and academic institutions to ensure that our students are college and career ready. Our focus is on a hands-on technical education and academics that are required for students to obtain industry recognized credentials along with articulated and concurrent college credits. **Resources and support are available for young adults aged 16-24 through the YES program. For more information, please contact Susan Rozycki at srozycki@hcvsd.org.**

**CAREER AND TECHNICAL PROGRAMS**

Students choose to come to Polytech as part of their high school experience. We attribute our success to providing students with career and technical programs that allow them to concentrate in areas of study that interest them. Our instructors have extensive background experience and advanced degrees in their field. Many programs offer high school academic credits along with their practical arts credits to meet high school graduation requirements. Ask your counselor for other academic credit opportunities. Several programs provide the opportunity for students to earn concurrent college credits that are transferable to many colleges and universities. Approximately 80% of our students further their education at colleges and technical institutions upon graduation.

**APPLYING TO POLYTECH**

The online application and admissions policy is accessible from our homepage (polytech.hcvsd.org). Students are required to submit an application by Dec. 18, 2020, for admission. Please note several programs have specific GPA requirements. Applications are accepted for new, returning, home-schooled, and out-of-county students. For questions regarding our specific programs, please contact Mrs. Tanya Nalesnik at 908-788-1119 ext. 2029. Students and parents are encouraged to visit programs of interest prior to enrollment. To arrange a visit, contact Mrs. Nicole Craven at 908-788-1119 ext. 2024 or ncraven@hcvsd.org. Visit our website at polytech.hcvsd.org.

**ADULT & CONTINUING EDUCATION COMPLETER PROGRAMS**

Students who enter Polytech as a senior may be eligible to return after graduation to complete the second year of their program. Cost for tuition varies and registration is done through the Adult & Continuing Education office, 908-788-1119 ext. 2007 or 2009. **Students looking to finish their cosmetology program after high school and obtain their New Jersey Board of Cosmetology License should refer to page 5 for details.**

**NO CREDITS WILL BE AWARDED FOR PARTIAL COMPLETION OF A COURSE**

**ANIMAL SCIENCE**

**ANIMAL SCIENCE**

The two-year Animal Science program enables students to relate principles of disease, anatomy and physiology, medical posology, terminology, and animal husbandry in order to guide decision making related to animal health. This includes general husbandry and safety, preventative care, proper handling and restraint, and understanding the individual industries. Students practice safe handling and diagnostic techniques in a hands-on environment while caring for a wide range of exotic and domestic animals. The operation of the program’s public grooming clinic provides students with skills in dog grooming, while acquiring knowledge of business operations and learning customer service skills. Second-year students will focus on physical exams, anatomy and physiology and their impact on animal health and disease, as well as daily care and husbandry of livestock housed permanently at the ESC campus. Over the course of two years, students will learn about both small and large animal species and have the opportunity to perform routine procedures on live animals, such as restraint and handling, sample collection, laboratory procedures, administering medication, vaccinations, and regular husbandry procedures. Upon graduation, students further their post-secondary studies in animal related programs or enter directly into the workforce. Students can also take advantage of college credits and articulation agreements with Delaware Valley University and Harcum College.

**AVAILABLE COURSES:**

- Animal Science I 20 credits (ESC)  
*Prerequisites:* Admission priority is given to rising Juniors

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- Animal Science II 20 credits, including required English (ESC)  
*Prerequisites:* Animal Science I

**NEW** Full-time program option for incoming freshmen  
Apply now at [hcvsd.org](http://hcvsd.org)

**AUTOMOTIVE**

**AUTO BODY COLLISION REPAIR**

This two-year ASE-NATEF accredited program will provide students with the basic knowledge, skills and techniques required for a future in auto body and related industries. Students will experience hands-on training with non-structural damage repair, refinishing and welding. Students receive safety training with hand and pneumatic tools, shop equipment, and personal protection equipment. Topics covered include metal and plastic repair, priming, sanding, masking, painting, and welding techniques such as hot air and airless plastic welding and steel and aluminum MIG welding. Students will use the latest technology to apply their skills in our state-of-the-art facility that includes a heated, downdraft spray booth and mixing room. Shop projects allow students to apply their knowledge and skills on customer cars, trucks, trailers, and motorcycles. Students also have the opportunity to receive ASE credentials, OSHA 10 Safety, and I-CAR Platinum ProLevel I and Welding certifications which will provide them with a competitive advantage in the industry.

**AVAILABLE COURSES:**

- Auto Body Collision Repair I 20 credits (C)

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- Auto Body Collision Repair II 20 credits (C)  
*Prerequisites:* Auto Body Collision Repair I

**AUTOMOTIVE SERVICES**

The Automotive Services program consists of classroom instruction along with hands-on training as students learn to diagnose, maintain, and repair a wide range of vehicles. Students will become knowledgeable about basic automotive systems and their operation. In the shop, students are trained in automotive engine operations, vehicle maintenance and repair, steering and suspension systems, brake systems, and electrical systems. They will also perform routine service work such as brakes, tune-ups, tire services, exhaust system repairs, lubrications and some basic welding. Students will learn problem-solving techniques while working on the major components of vehicles. The curriculum will prepare students with the content necessary to earn ASE student certifications in Maintenance & Light Repair (MLR), Engine Repair, Suspension & Steering, and Brakes. Upon completion of this program, students will have the entry-level skills necessary to begin employment as general automotive technicians or other entry-level jobs in the automotive industry.

**AVAILABLE COURSE:**

- Automotive Services I 20 credits (C)

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- Automotive Services II 20 credits (C)  
*Prerequisites:* Automotive Services I

**AUTOMOTIVE TECHNOLOGY**

Students interested in a career in the automotive technology field are encouraged to enroll in the two-year Automotive Technology ASE-NATEF Certified program. The program provides students the opportunity to excel through specialized training in an up-to-date service shop. Training includes automotive engine operations, vehicle maintenance and repair, steering and suspension systems, computerized engine control, brake systems, electrical systems, basic heating, ventilation and air conditioning, transmissions, axles, fuel and ignition systems, and front end alignment. A challenging curriculum delivered by an Automotive Service Excellence (ASE) Certified Master Technician prepares students with opportunities to master skills required to pass the ASE student certification examinations, the most recognized certifications in the automotive industry. In addition to ASE student certifications, other certifications include Snap-on ShopKey Pro, Electronic Service Information, Valvoline Lubricant, and EPA Automotive Refrigerants. Through the Ford Ace Program, students have the opportunity to obtain Ford certification. Second-year students will also learn about hybrid and electric vehicles and participate in the “CARS 40-hour Mentorship Program” with local dealerships. Program completers have the opportunity to obtain college credits from Northampton Community College, Pennsylvania College of Technology, Universal Technical Institute, Ohio Technical College, Lincoln Technical Institute, and University of Northwestern Ohio. Upon completing the program, graduates further their post-secondary studies in the automotive field, enter directly into employment, or enroll into the Automotive Apprenticeship Program.

**AVAILABLE COURSES:**

- Automotive Technology I 20 credits (C)  
*Prerequisites:* Admission priority is given to rising Juniors

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- Automotive Technology II 20 credits (C)  
*Prerequisites:* Automotive Technology I

**CAMPUS LOCATION KEY** (C) Central Campus (B) Bartles Campus (ESC) Calfon Campus

**BUILDING TECHNOLOGIES**

**CONSTRUCTION SCIENCE**

Students in the Construction Science program will follow the curriculum and earn certifications from the National Center for Construction Education and Research (NCCER), a nationally recognized organization for construction education. First-year students will develop basic residential construction skills in a well-equipped construction shop, covering topics related to: basic safety, construction math, tool identification, building materials, fasteners, adhesives, hand and power tools, construction drawings, floor and wall systems, ceiling joist and roof framing. Students will also earn OSHA 10 Safety Certification. Second-year students will learn topics related to: commercial drawings, roofing applications, thermal and moisture protection, exterior finishing, cold-formed steel framing, drywall installation, drywall finishing, door and door hardware, suspended ceilings, trim work and cabinet installation. Students will have opportunities to visit trade union training programs such as the carpenter and heavy equipment operators. Program graduates can further their education by attending post-secondary programs in construction management or engineering, enrolling in a related apprenticeship program or entering directly into the workforce.

**AVAILABLE COURSES:**

- Construction Science I 20 credits (C)

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- Construction Science II 20 credits (C)  
*Prerequisites:* Construction Science I

**HEAVY EQUIPMENT OPERATOR PROGRAM (HEOP)**

This two-year shared-time program is the first of its kind in New Jersey for high school students. HEOP is designed to provide students with hands-on training opportunities through the use of heavy equipment simulators. Students will learn how to operate various pieces of construction equipment including backhoes, dozers and excavators. Hands-on training will be supplemented with classroom instruction from the National Center for Construction Education Research (NCCER) curriculum for Heavy Equipment Operations. First-year students will learn basic heavy equipment safety and orientation to the trade, identification of equipment, basic operational techniques, introduction to earth moving and grades. Students will receive OSHA 10 Safety Certification and NCCER Heavy Equipment Operations Level 1 certifications. Second-year students will learn about on-road dump trucks, scrapers, loaders, rough terrain forklifts, excavation math, interpreting civil drawings, site work, skid steer and soils. Students will receive forklift and NCCER Heavy Equipment Operations Level 2 Certification.

**AVAILABLE COURSES:**

- Heavy Equipment Operator I 20 credits (C)

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- Heavy Equipment Operator II 20 credits (C)  
*Prerequisites:* Heavy Equipment Operator I

**CAMPUS LOCATION KEY** (C) Central Campus (B) Bartles Campus (ESC) Califon Campus

**COSMETOLOGY**

**COSMETOLOGY**

This program prepares students for both the practical and theory portions of the New Jersey Cosmetology State Board Licensing Exam and for successful employment related to the field. The program focuses on training and instruction in all phases of hair, nail, skin care, and makeup application. Students will be eligible for a student permit after acquiring 600 of the 1,000 hours of instruction required by the State.

Students enrolled in the cosmetology program their junior year will be eligible to complete two of the three required courses while in high school, with the option of enrolling in the third course through the Adult Cosmetology Completer Program.

**AVAILABLE COURSES:**

- Cosmetology I 20 credits (C)  
*Prerequisites:* Admission is given to rising Juniors only

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- Cosmetology II 20 credits (C)  
*Prerequisites:* Cosmetology I and successfully complete 275 hours towards a Cosmetology license

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- Adult Cosmetology Completer Program (Cosmetology III) (C)  
*Prerequisites:* Cosmetology II; Students must successfully complete a competency exam and 550 hours towards a Cosmetology license

Students interested in enrolling in the Adult Cosmetology Completer Program should contact the Adult and Continuing Education office at (908) 788-1119 ext. 2007 or 2009 to obtain information regarding tuition, registration and program requirements.

“ After two years of career and technical education provided at Polytech, my daughter has sharpened and refined her perspective and interest in medicine. She is graduating this spring and pursuing her goal of becoming a surgeon. Further, and due to the high quality of the school’s classes, she has transferable and relevant credits toward the next phase of her education. ”

- William Spear, Parent

**COMPUTER SCIENCE**

**COMPUTER NETWORKING & CYBERSECURITY**

The Computer Networking and Cybersecurity program is a two-year program designed to develop student competency in a range of computer devices, networking, and cybersecurity. Students will develop a core of knowledge that includes an overview of PC, mobile devices, peripherals, virtualized environments, and cloud services. The program includes an in-depth exposure to information technology and network communications standards, giving students opportunities to install, manage, repair and troubleshoot PC hardware and mobile technology with Windows, Linux, Mac, and mobile operating systems. Students will also gain an advanced knowledge of networking and network management, including local area networks, wide area networks, enterprise-level networks, and network security. Finally, students will learn about network security and cybersecurity in order to protect an organization’s assets against danger, damage, loss, and criminal activity. Students will earn CompTIA A+ and CompTIA Net+ certifications and begin CompTIA Security+ certification course work.

**AVAILABLE COURSES:**

- Computer Networking & Cybersecurity I 20 credits (B)
  - Computer Networking & Cybersecurity II 20 credits (B)
- Prerequisites:* Computer Networking & Cybersecurity I

**CULINARY ARTS**

**CULINARY & BAKING ARTS**

This program will provide a well-rounded foundation upon which to build a college and career pathway. Working in a state-of-the-art commercial kitchen, students are provided with the hands-on instruction necessary for entry-level work or acceptance into a post-secondary institution. Students will follow a rigorous curriculum that includes instruction in safety and sanitation, food preparation, cooking techniques, equipment operation and maintenance, applicable regulations, and principles of food service management. Second-year students focus on more advanced techniques in both disciplines, with additional emphasis on restaurant management, food costing, and marketing. Second-year students will also have the opportunity to acquire their Serv Safe national industry certification and earn the ProStart National Certificate of Achievement, recognized by many post-secondary institutions and businesses. Upon graduation, students enter directly into the field, enroll in a related apprenticeship program or pursue post-secondary opportunities.

**AVAILABLE COURSES:**

- Culinary & Baking Arts I 20 credits (C)
  - Culinary & Baking Arts II 20 credits (C)
- Prerequisites:* Culinary and Baking Arts I

**CRIMINAL JUSTICE**

**LAW ENFORCEMENT & HOMELAND SECURITY**

The first-year program provides an introduction and overview of homeland security and focuses on security policy, planning, and operations dedicated to the protection of U.S. territory, assets, infrastructure, institutions, and citizens from external threats. The curriculum includes instruction and activities in national security policy, international and domestic terrorism, hazards, government relations, intelligence, law enforcement, security technology, communications and information technology, homeland security planning and operations, disaster planning and outbreak alerts and applications to specific threat scenarios. Students will also be introduced to and examine the major agencies within Immigration and Customs Enforcement, the Department of Customs and Border Protection, U.S. Secret Service, U.S. Coast Guard, Transportation Security Administration, and Federal Emergency Management Agency. Students are required to be dually enrolled at Raritan Valley Community College (RVCC) to be eligible to earn college credit for RVCC’s Introduction to Criminal Justice course. Through a hands-on approach, students will explore emergency response and first responder skills, forensics, crime scene investigations, the use of facial recognition software and composite drawings, homeland security exercises and utilize the district’s state-of-the-art, interactive Meggitt L7 Law Enforcement Firearms Training System.

In the second year, students will focus on the many careers offered in law and public safety. Major career pathways including emergency and fire management, security and protective services, law enforcement services, legal services and correction services will be introduced. Students will investigate through a hands-on approach the criminal justice system from preliminary investigation to arrest and trial and examine contemporary issues in law enforcement. Students will learn the basics of emergency dispatching, the importance of the 911 system to law enforcement individuals and will participate in activities related to investigation, police procedures and training utilizing the district’s state-of-the-art interactive Meggitt L7 Law Enforcement Firearms Training System. Students are required to be dually enrolled at Raritan Valley Community College (RVCC). College coursework covered includes: Terrorism and Police and the Community. Registration and payment for all college courses is the responsibility of the student.

**AVAILABLE COURSES:**

- Law Enforcement & Homeland Security I 20 credits (B)
- Prerequisites:* 3.0 GPA or 85
- Law Enforcement & Homeland Security II 20 credits (B)
- Prerequisites:* Law Enforcement & Homeland Security I; 3.0 GPA or 85

**HEALTH AND MEDICAL SCIENCES**

**ALLIED HEALTH**

The Allied Health program provides a foundation upon which students can build a college and career pathway. Students will gain knowledge of medical assisting through research of health care systems and settings, medical terminology, clinical patient care, basic pharmacology, nutrition, anatomy and physiology, and psychology. Students will have the opportunity to earn certifications in Electrocardiogram (ECG), Phlebotomy, and First Aid & CPR. All certified designations depend upon the student’s successful completion of the appropriate certifying examination. After successful completion of the course, students will have the opportunity to earn a Medical Assistant credential (CCMA) from the National Healthcareer Association.

**AVAILABLE COURSES:**

- Allied Health I 20 credits (B)
  - Allied Health II 20 credits (B)
- Prerequisites:* Allied Health I

**HEALTHCARE SCIENCE**

The Healthcare Science program is designed to teach students about careers that promote health, wellness, and diagnosis and treatment of injuries and diseases. In this first-year course, students will gain an understanding of the broad range of healthcare careers that span from working directly with patients to managing and collecting medical data for the use of public health. Students will earn the American Heart Association BLS certification for healthcare providers along with the OSHA 10 Healthcare certification. Students are required to be dually enrolled at Raritan Valley Community College (RVCC) to be eligible to earn college credits from RVCC and the Rutgers School of Health Professions. This course is a prerequisite for the Exercise Science & Sports Medicine and Pre-Nursing pathways which are taken in the second year.

**AVAILABLE COURSE:**

- Healthcare Science 20 credits (B)
- Prerequisites:* 3.0 GPA or 85; Admission priority given to rising Juniors  
Seniors enrolling in Healthcare Science may not be eligible for Rutgers credits

**EXERCISE SCIENCE & SPORTS MEDICINE**

Students who choose Exercise Science & Sports Medicine as their returning pathway will practice in a clinical lab setting to learn about the pathologies related to human performance, health, and fitness. The treatment and prevention of musculoskeletal injuries related to sports and exercise will also be studied and practiced. Students are required to be dually enrolled at Raritan Valley Community College (RVCC) to be eligible to earn college credits from RVCC and the Rutgers School of Health Professions. This pathway can fulfill some of the requirements for RVCC’s degrees in A.S. in Exercise Science or A.S. in Exercise Science with option in Sports Medicine & Rehabilitation and Sports Management.

**AVAILABLE COURSE:**

- Exercise Science & Sports Medicine 20 credits, including required PE and English (B)
- Prerequisites:* Healthcare Science; 3.0 GPA or 85

**CAMPUS LOCATION KEY** (C) Central Campus (B) Bartles Campus (ESC) Califon Campus

**PRE-NURSING**

Students who choose Pre-Nursing as their returning senior year pathway will learn and practice nursing techniques in a clinical lab using medical equipment, devices and a human patient simulator. As part of the curriculum, students will earn the American Heart Association Basic Life Support certification and First Aid certification for healthcare providers. Students are required to be dually enrolled at Raritan Valley Community College (RVCC) to be eligible to earn college credits from RVCC and the Rutgers School of Health Professions. These certifications and courses can fulfill some of the requirements for RVCC’s A.A.S. in Nursing/RN. Students seeking to attend RVCC’s Nursing program must apply to the college upon graduation and meet all admissions requirements.

**AVAILABLE COURSE:**

- Pre-Nursing 20 credits, including required PE and English (B)
- Prerequisites:* Healthcare Science I; 3.0 GPA or 85

**COLLEGE COURSES AND CERTIFICATIONS**

YEAR 1 HEALTHCARE SCIENCE	YEAR 2 EXERCISE SCIENCE & SPORTS MEDICINE	YEAR 2 PRE-NURSING
Anatomy & Physiology I (4 credits, RVCC)	Cardiovascular Conditioning (2 credits, RVCC)	Elements of Physical Fitness (3 credits, RVCC)
Anatomy & Physiology II (4 credits, RVCC)	Elements of Physical Fitness (3 credits, RVCC)	Medical Terminology (3 credits, RVCC)
Introduction to Public Health (3 credits, RVCC)	Intro to Weight Training (2 credits, RVCC)	Current Health Issues (3 credits, RVCC)
First Aid & CPR (3 credits, RVCC)	Current Health Issues (3 credits, RVCC)	Pathophysiology (3 credits, RVCC)
Dynamics of Health Care in Society (3 credits, Rutgers)	Prevention & Care of Athletic Injuries (3 credits, RVCC)	Fundamentals of Health & Wellness (3 credits, Rutgers)
Emergency & Clinical Care (2 credits, Rutgers)	Fundamentals of Health & Wellness (3 credits, Rutgers)	
OSHA 10 for Healthcare Professionals		

**NOTE:** Registration and payment for all college courses is the responsibility of the student. Students need to pass 2 Rutgers courses.

**ART | VISUAL COMMUNICATION**

**3D COMPUTER ANIMATION**

The 3D Computer Animation program is a two-year program that covers color and design, the history of animation, careers in an animation studio, the principles of animation, and software in the 2D and 3D animation industries. This program uses Autodesk Maya, which is one of the most powerful software programs used in the industry. To prepare for this exciting industry, students in the first year will establish a fine arts foundation by drawing and painting from life observation. Students will utilize pastels, watercolor, acrylic, and charcoal to draw and paint the subject they are observing, which can include models and animals in motion, still life, and portraits. The first-year program will also include designing and creating concept art, characters, storyboards, backgrounds, environments, and animation sequences. Through these exercises, students will begin to build a solid portfolio. During the second year, students will explore ZBrush software, enhance their skills in Autodesk Maya, and learn about anatomy for character development and accurate animation sequences. Students will continue building a portfolio that communicates their unique style for college and employment that includes studio artwork and computer models and scenes.

**AVAILABLE COURSES:**

- 3D Computer Animation I 20 credits (B)
  - 3D Computer Animation II 20 credits (B)
- Prerequisites:* 3D Computer Animation I

**COMMERCIAL ARTS & ADVERTISING DESIGN**

The Commercial Arts & Advertising Design program is a two-year program covering color and design, fine art, computer software, and careers one can have as an artist/designer. During the first year, students explore commercial arts by designing and creating drawings, paintings, and digital artwork including logos, t-shirts, murals, advertisements, brochures, banners, greeting cards, and menus using Adobe Illustrator, Photoshop, AfterEffects and InDesign software. Students draw and paint from life observation in pastels, watercolor, acrylic and charcoal to begin to build a solid portfolio. They also develop skills using the computer to explore typography and visual hierarchy in design. Field trips, guest speakers, and production of freelance work for clients are important components of the program. During the second year, students continue to build a portfolio that expresses their artistic talent and expand their skills with creative typography and motion design. Graduates continue their post-secondary studies by entering into an art-related program or directly into the workforce.

**AVAILABLE COURSES:**

- Commercial Arts/Advertising Design I 20 credits (B)
  - Commercial Arts/Advertising Design II 20 credits (B)
- Prerequisites:* Commercial Arts/Advertising Design I

**GRAPHIC DESIGN**

The Graphic Design program is a two-year program that provides students with the knowledge and skills necessary to pursue the fields of graphic design, advertising, and digital multimedia. Students learn analysis and research of typography, layout and composition, color theory, and software skills. Students will also develop basic skills in two-dimensional design, color, and content creation while employing the design process of research, sketching, and experimentation. Assignment focus is on logo, brochure and poster design, branding, advertising, packaging, photography, and web design. Using industry standard equipment and software programs, such as the Adobe Creative Suite, students will develop marketable skill sets and begin to develop a professional portfolio. Students will have the opportunity to begin working on in-house and real-world jobs by working directly with clients from local area businesses. Second-year students will refine their skills and focus on both online and physical portfolio development. Career options will also be explored in the fields of marketing, advertising, and graphic design. Students will gain job experience through I I I Studio, the school's graphic design studio that markets and produces design solutions for local area businesses. Students will meet weekly to discuss work flow, job responsibilities, scheduling and job/project status. Graduates can continue their post-secondary studies in a two- or four-year art-related program or enter directly into the workforce. Students pursuing college can take advantage of college credits offered by Centenary University's dual enrollment program, where students can earn 4 credits in Social Media Marketing. Registration and payment for all college courses is the responsibility of the student.

**AVAILABLE COURSES:**

- Graphic Design I 20 credits (B)
  - Graphic Design II/Design Marketing 20 credits (B)
- Prerequisites:* Graphic Design I

“ Polytech provided a tough yet encouraging atmosphere with opportunities that just don't exist in other classrooms. The staff is bright, professional, and responsive. Our daughter soared above and beyond being in this hands-on environment, becoming part of National Art Honor Society and National Technical Honor Society. She was given real-world opportunities by creating logos & designs and formulating full business plans. She now will move onto college with scholarships all due to Polytech. Her passion for learning was reignited at Polytech!

- Kathleen McMahon Adams, Parent

**EDUCATION**

**EARLY CHILDHOOD EDUCATION**

This two-year program provides students with the opportunity to learn about early childhood education in a clinical setting with 3- to 5-year-old preschool children throughout the school year. Kinder Magic is an on-site learning center where students can implement and test their planned lessons and activities focused on areas such as daily themes, story time, art, music, and special events. The program’s curriculum is based on professional standards, which provides students the ability to earn seminar hours towards the national Child Development Associate (CDA) credential. At the completion of the two-year program, students will be able to complete two of the three major requirements for this credential, which is recognized in early childhood learning centers throughout the nation. Students who complete and earn the CDA credential while enrolled in this course can earn up to 9 articulated credits from Raritan Valley Community College (RVCC). As part of the program, students will become active members of the National Family, Career and Community Leaders of America (FCCLA) student organization and have the opportunity to compete at State and National levels. Second-year students will also obtain their First Aid/CPR Certification.

**AVAILABLE COURSES:**

- Early Childhood Education I 20 credits (B)
  - Early Childhood Education II 20 credits (B)
- Prerequisites:* Early Childhood Education I

**TEACHER ACADEMY\***

This one-year program is for the student that has a desire to work in the educational field and plans to pursue a 4-year college degree. The Teacher Academy program was designed to give students an opportunity to obtain exposure to the vast number of occupations in the educational field while providing hands-on experience in a variety of settings. Students must have their own transportation as the program requires students participate in multiple professional internships in their selected discipline throughout the year with cooperating county school districts. The program will provide exposure to other related occupations in addition to teaching such as educational support services, administration and related government agencies and include different types of schools such as rural, urban, private and alternative schools. Students will be dually enrolled at Raritan Valley Community College and earn 3 credits in Foundations of Education. If students choose, they may also enroll at Rider University, earning 3 credits in their online Introduction to Education course. As part of the program, students will have created a professional teaching portfolio aligned to the NJ Professional Teaching standards.

**AVAILABLE COURSE:**

- Teacher Academy 20 credits (B)
- Prerequisites:* 3.0 GPA or 85; Students must be rising seniors and have their own transportation for the required internships.

\* **NOTE:** Students will be required to take a placement test for acceptance into the Teacher Academy program and dual enrollment at RVCC.

**CAMPUS LOCATION KEY** (C) Central Campus (B) Bartles Campus (ESC) Califon Campus

**CUSTOMIZED/WORK-BASED LEARNING**

**STRUCTURED LEARNING EXPERIENCE (SLE)**

This course is for students who would like to participate in a work experience their senior year of high school. Students must attend a weekly course on career exploration, readiness and preparation and work with the Structured Learning Coordinator.

**AVAILABLE COURSE:**

- Structured Learning Experience 20 credits (B) (C)
- Prerequisites:* Students must be rising seniors and have their own transportation. Work experience must be approved by the SLE Coordinator.

**SUPERVISED SCHOOL-TO-CAREERS**

This program is designated for returning seniors who are interested in enhancing their senior year of study by participating in a paid work experience within their program field. Students are required to arrange their work experience through the Structured Learning Coordinator and attend a modified schedule of related instruction each week.

**AVAILABLE COURSE:**

- Supervised School-to-Careers 20 credits (B) (C)
- Prerequisites:* Students must have completed one year of a Polytech program and have their own transportation. Work experience must be approved by the SLE Coordinator.

**CAREER PREP**

The Career Prep program is designed for conscientious, self-motivated students that want to get a jump-start on college with a specific career goal in mind. As a customized high school and college program, this program focuses on meeting students’ individual needs and provides the opportunity to earn as many as 12 transferable college credits while still in high school. A Career Prep plan can include on-campus college work, online instruction, certification courses or other types of educational experiences. Students must be enrolled in an instructional course each semester. Students that choose to take college courses at Raritan Valley Community College (RVCC) or other approved post-secondary institutions or educational providers are reimbursed for tuition upon successful completion.

**AVAILABLE COURSE:**

- Career Prep 20 credits (B) (C)
- Prerequisites:* 3.0 GPA or 85  
Students must have their own transportation.

“ Internships and rigorous curriculum helped introduce me to my future profession, giving me a head start. ”

- Kate Murray, Alumna



**TRANSITION SKILLS**

Transition Skills is a program designed for students with special needs and can be repeated based on their career interest, age and achievement of desirable skills. All programs solicit recommendations from both the student’s case manager and the Polytech social worker.

**CAREER PATH TO TRANSITIONS**

The Career Path to Transitions program is a hands-on approach to career planning and development. Using the Pre-Employment Transition Solution (Pre-ETS) curriculum, students who are preparing to transition from high school will participate in the Workforce Innovation and Opportunity Act (WIOA) program activities which include: job and career exploration, work-based learning, workplace readiness skills and self-advocacy development. Utilizing the state-of-the-art facilities and partnering with vocational programs taught by industry experts at both the Bartles and Central campuses, students will participate in an exploration of multiple career fields and a variety of trainings that will help foster a better understanding of careers, areas of interests and skill development. Enhancing this career exploration and development curriculum, students will also study thematic units related to: social skills, health advocacy, exploring the community and life and personal skills.

**AVAILABLE COURSE:**

- Career Path to Transitions\* 20 credits (B)

*Prerequisites:* Recommendations from both the student’s case manager and the Polytech social worker.

\*Note: Not all programs are available for exploration.

“ Polytech has given me the fundamental skills to achieve the career that I want by teaching concepts through hands-on work and time in the shop. The work study program also allowed me to get real-world experience with my chosen career path.  
- Ryan Koubek, Alumnus ”

**SPECIALIZED PATHWAYS AND CERTIFICATES**

The Hunterdon County Fire Academy and EMT Academy are two pathways that complement each other and provide students with training in multiple emergency response fields. These academies will provide students the opportunity to take advantage of Polytech’s partnerships with the Hunterdon County Fire Chief’s Association, the Hunterdon County Emergency Services Training Center, and Clinton First Aid & Rescue Squad (CFARS). Each academy program runs a semester. **Students take the Fire Academy in the fall and the Emergency Medical Technician (EMT) Academy in the spring.**

**FIRE ACADEMY**

**FALL**

Students will enroll in the New Jersey Firefighter I course and be eligible to earn the Firefighter I certification. With a combination of classroom and hands-on participation, the new firefighter candidate will master the basic tasks of firematics. Some topics covered are Right-to-Know, safety, medical care, knot tying, ICS-100, fire behavior, chemistry of fire, SCBA’s, extinguishers, forcible entry, ladders, rescue procedures, ventilation, water supply, hose and nozzle handling, salvage and overhaul, sprinklers, communications, blood borne pathogens, wildland fires, utility emergencies, thermal imaging camera, rope rescue and hazmat awareness and operations. Due to the in-depth nature of the material being covered, the curriculum for the Fire Academy pathway requires individuals be available outside of school hours, including evenings and weekends. Students are strongly encouraged to join a local fire department prior to enrollment. For more information, please contact Mrs. Tanya Nalesnik at [tnalesnik@hcvsd.org](mailto:tnalesnik@hcvsd.org).

**EMERGENCY MEDICAL TECHNICIAN (EMT) ACADEMY**

**SPRING**

Students will enroll in CFARS EMT Training Program and be eligible to earn the EMT certification. Topics include introduction to emergency care, well-being of the EMT, medical legal and ethical issues, the human body, baseline vital signs, pharmacology, respiratory, cardiovascular, and diabetic emergencies, sample history, professional rescuer CPR, airway management, and scene size-up. The student will also learn initial assessment, focused history for the medical and trauma patients, detailed and focused physical exams, and the latest in Automated External Defibrillation (AED) usage. Students will have a 10-hour field internship riding with an ambulance service, and 10 hours observation time in a hospital setting. Due to the in-depth nature of the material being covered, the curriculum for the EMT Academy pathway requires individuals be available outside of school hours, including evenings and weekends. Students are strongly encouraged to join a local rescue squad prior to enrollment. Students are responsible for any course and supplemental fees up to \$1900, but will be reimbursed for course fees upon successful completion of the course. For more information, please contact Mrs. Tanya Nalesnik at [tnalesnik@hcvsd.org](mailto:tnalesnik@hcvsd.org).

**AVAILABLE COURSE:**

- Fire Academy/EMT Academy 20 credits

\* Note: Fire Academy and EMT Academy must be taken together.

Upon successful completion of the spring Fire Academy program, students will earn 10 Option II credits.

**CAMPUS LOCATION KEY** (C) Central Campus (B) Bartles Campus (ESC) Califon Campus



Hunterdon County Vocational School District is comprised of five Hunterdon County Schools. The five schools are the Biomedical Sciences Academy, Computer Science & Applied Engineering Academy, Environmental Sustainability & Engineering Academy, Polytech Career and Technical High School, and the Adult & Continuing Education.



**POLYTECH** is the district's shared-time high school. Students spend half their school day at one of our three campuses while fulfilling their academic requirements at their home school. Our more than twenty Career and Technical programs offer college credits, industry recognized credentials, hands-on training, and work-based learning opportunities. As a result of the collective partnership between business and education, students continue to win many state and national recognitions and awards.



**ADULT & CONTINUING EDUCATION** provides educational opportunities for adults to acquire technical skills to begin a new career, enhance existing skills, or to enrich personal lives. We believe lifelong learning is a necessity for everyone and afford all students the opportunity to keep abreast of changes in technology, allowing them to remain competitive in the work environment.



**BIOMEDICAL SCIENCES ACADEMY (BSA)** is a full-time career and technical high school housed at North Hunterdon High School. The BSA is a rigorous, highly focused four-year program for students with career interests in biomedical sciences. This program provides students with exposure to concepts of human medicine, physiology, genetics, microbiology, and public health. Students have the opportunity to take electives in neuroscience and biomedical engineering. The curriculum combines resources from multiple colleges and universities, giving students the opportunity to 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.



**COMPUTER SCIENCE & APPLIED ENGINEERING ACADEMY (CSAEA)** is a full-time career and technical high school housed at Voorhees High School. The CSAEA employs a rigorous, highly focused four-year program for students with career interests in Computer Science. The curriculum includes university resources, giving students the potential to earn up to 12 college credits through a combination of dual enrollment and two AP courses. It includes instruction in various platforms and coding languages, and exposure to specializations in Computer Science, such as simulation and digital electronics and cybersecurity. Students can also earn CompTIA Linux+ certification.



**ENVIRONMENTAL SUSTAINABILITY & ENGINEERING ACADEMY (ESEA)** is a full-time career and technical high school housed at Voorhees High School (VHS). The ESEA is the county's first four-year academy that focuses on renewable and sustainable energy in concert with environmental engineering. The curriculum infuses and aligns with Centenary University's curriculum. 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 college credits from Centenary University.

**IMPORTANT DATES**

**VIRTUAL OPEN HOUSE** **SATURDAY, OCTOBER 24, 2020**

Check [www.hcvsd.org](http://www.hcvsd.org) for more information 10:00am – 12:00pm

**VIRTUAL INFORMATION SESSIONS** **VARIOUS DATES**

Check [www.hcvsd.org](http://www.hcvsd.org) for more information

**POLYTECH APPLICATION DUE** **DECEMBER 18, 2020**

Application must be completed online at [www.hcvsd.org](http://www.hcvsd.org)

**POLYTECH ACCEPTANCE DECISIONS** **FEBRUARY 5, 2021**

Students will be notified by email used on application

Biomedical Sciences Academy | Computer Science & Applied Engineering Academy  
Environmental Sustainability & Engineering Academy

**VIRTUAL INFORMATION SESSIONS** **VARIOUS DATES**

Check [www.hcvsd.org](http://www.hcvsd.org) for more information

**ACADEMY APPLICATIONS DUE** **DECEMBER 18, 2020**

Application must be completed online at [www.hcvsd.org](http://www.hcvsd.org)

**ACADEMY TESTING\*** **SATURDAY, JANUARY 9, 2021**

**ACADEMY INTERVIEWS** **WEEK OF JANUARY 19, 2021**

\* Mandatory testing date

**ACADEMY DECISION DATE** **FEBRUARY 5, 2021**

**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, religions, sex, ancestry, national origin, social or economic status, or disability 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 908-788-1119 ext. 2203.

**TITLE IX COORDINATOR**

Corinne Steinmetz  
(908) 284-1444 ext. 2203

10 Junction Road  
Flemington, NJ 08822

**504 COORDINATOR**

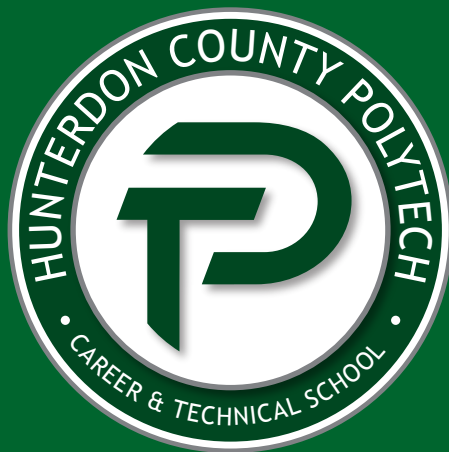
Amanda Kucowski  
(908) 788-1119 ext. 2011

8 Bartles Corner Road  
Suite 201  
Flemington, NJ 08822

**HIB COORDINATOR**

Jennifer Calvelli  
(908) 284-1444 ext. 2110

10 Junction Road  
Flemington, NJ 08822



[POLYTECH.HCVSD.ORG](http://POLYTECH.HCVSD.ORG)

**CENTRAL CAMPUS**

**10 Junction Road  
Flemington, NJ 08822  
908.284.1444 P  
908.284.9824 F**

**BARTLES CAMPUS**

**8 Bartles Corner Road  
Suite 201  
Flemington, NJ 08822  
908.788.1119 P  
908.284.1391 F**

**ESC CAMPUS**

**37 Hoffmans Crossing Road  
Califon, NJ 07830  
908.439.4280 P  
908.284.1391 F**