

Career & Technical Education in Delaware High Schools

Delaware’s goal is for every high school graduate to be college or career ready, and there are multiple avenues available for each student to achieve that. The old separate paths where some students went to public or private high schools to prepare for college while others went to a vocational school to prepare directly for work are no longer as distinct. Now, all public and most charter schools offer a variety of career and technical education (CTE) pathways where students can get real work experience and earn certificates employers look for when hiring, as well as prepare for college. Vocational-technical (Vo-Tech) schools focus primarily on career readiness, but also prepare students for further post-secondary education. On the following pages, a listing of career programs offered in the comprehensive, charter, and Vo-Tech schools is provided, along with the program descriptions. Individual schools may also have other individual programs which are too numerous to list in their entirety here. On the last page of this document, you will find a table with website links that go into further detail of the offerings in each school/district.

Delaware Pathway Programs help students develop the academic, technical, and employability skills, and to gain the real-world experience needed for successful, in-demand jobs. The **Delaware Pathways** website connects students, communities, and employers through high-quality career pathways. You can use the tools provided on their website to kickstart your education and your career goals. You can explore pathways, explore career interests, and create your educational plan. View the site here: <https://delawarepathways.org/students-families/>. The **Delaware Pathways** website also allows you to view available pathways at the different school districts in Delaware. Along with pathway information, the website provides sports programs, CTE student organizations, languages, and work-based learning & apprenticeship opportunities available at the schools. Links to the school's individual course catalogs are provided here as well. This information can be found at: <https://delawarepathways.org/schools/>. You can find more detailed information about the pathway programs and the offerings in each school/district by visiting <https://delawarepathways.org/pathways-programs/>.

Career Programs Offered in Delaware Public High Schools

PROGRAM NAME	PROGRAM DESCRIPTION	HIGH SCHOOLS WHERE OFFERED
Agriculture, Food & Natural Resources		
Agricultural Power and Engineering	A three course program where students learn skills associated with dynamic power systems and metal fabrication. Students are exposed to mathematical, scientific, and engineering principles and methods that help prepare them for careers such as welding, maintenance, or industrial technician and power technology repair.	Dover, Sussex Central, Lake Forest, Smyrna, Christiana
Agricultural Structures & Engineering	A three course program where students practice real world applications and problem-solving associated with agricultural designs and engineering principles. The program helps prepare students for a variety of careers in the construction field, such as building maintenance, home improvement, and green energy technologies.	Sussex Central, Milford, Smyrna, Woodbridge
Animal Science & Management	A three course hands-on program that explores: animal production and management, physical restraint and handling, conducting health exams, evaluation of behavior, principles of genetics and reproduction, animal selection through evaluation, anatomy and physiology, animal nutrition, basic veterinary practices, global food systems, ethics of food animal production, and current agricultural issues in order to foster an understanding of the steps involved in producing and marketing products for consumers. Students practice decision-making and research skills through classroom instruction, laboratory activities, and practical experiences. The program prepares students for a variety of careers in animal care and husbandry.	Appo, Middletown, Caesar Rodney, Cape Henlopen, Dover, Christiana, Odessa, William Penn, Delmar, Lake Forest, Laurel, Milford, McKean, Smyrna, Woodbridge, Sussex Central, Indian River
Animal Science & Veterinary Technology	Provides a comprehensive curriculum that combines an extensive understanding of leadership in animal science and agriscience with practical skills in animal care and veterinary medicine. This program is designed for students passionate about working with animals and eager to address local, regional, and global environmental and agricultural challenges.	Appo, Middletown, Odessa, Hodgson
Environmental and Natural Resource Science (ENRS)	A three course program designed to provide students with the scientific principles and methods required to understand interrelationships of the natural world. ENRS is an interdisciplinary study of environmental problems, both natural and human-made, leading to a variety of careers in environmental technology and natural sciences.	Dover, McKean, Seaford, Polytech, Appo, Middletown, Odessa
Food Science	Offers career exploration concerning the handling and processing of food, food packaging and labeling, food safety, and issues in food science. Students will receive hands-on instruction that includes dairy product testing, identification of retail cuts of meat, fish processing, and more. A special emphasis is placed upon workforce opportunities for internships and hands-on experience in these industries.	Odyssey Charter

PROGRAM NAME	PROGRAM DESCRIPTION	HIGH SCHOOLS WHERE OFFERED
Natural Resource Management	A three course program designed to provide students with exposure to topics in conservation management and maintenance of natural resources. Students learn responsible stewardship practices of air, soil, water, land, fish, and wildlife resources for economic, recreation, and health purposes. Students utilize a variety of classroom and laboratory activities supplemented through supervised agricultural experiences and leadership programs and activities.	Appo, Middletown, Cape Henlopen, Odessa, Smyrna, Sussex Central, Sussex Academy
Plant Science	A three course program designed to provide students with knowledge of plant growth and reproduction, as well as the use of plants for food, fiber, and ornamental purposes. The program prepares students for a variety of careers in: agronomy, ornamental horticulture, biotechnology, forestry, soil science, and turf management.	Appo, Middletown, Caesar Rodney, Cape Henlopen, Christiana, William Penn, Delmar, Lake Forest, Laurel, Milford, McKean, Odessa, Smyrna, Woodbridge, Sussex Central, Indian River
Plant Systems & Sustainability	Encourages students to study the production of plants while developing an understanding of one of the largest employment sectors. Areas of study include soils, hydroponics, plant anatomy and physiology, taxonomy, growing environments, sexual reproduction, asexual reproduction, insects and diseases, and production & marketing. The major focus of the pathway is to expose students to the world of agriculture, plant science, and career options.	Appo, Middletown, Odessa
Architecture & Construction		
Architectural Engineering Technology (AET)	A three course program in construction and architecture focused on site selection, drafting, planning, and other aspects of project management. The AET program of study will lead to students earning AutoCAD and Revit certification, and dual enrollment for up to 10 credits from Delaware Technical and Community College.	Caesar Rodney, Dover, A.I. DuPont, Sussex Tech, Newark
Building Trades	Introduces students to the skills needed in the construction trades by industry workers in the field. Students develop skills and abilities to demonstrate knowledge in the various trade skills working on-site.	William Penn
Carpentry Cabinetry and Design	Prepares students for a variety of careers in building trades, architecture, and interior design. Students see projects through drafting, building, renovating, and designing phases while applying a variety of academic knowledge and skills.	Cape Henlopen
Construction Machinery Operator	A four course program designed to provide students with the knowledge and skills necessary to begin a career as a heavy equipment operator. The program includes both virtual and real seat time operating a skid-steer, backhoe, excavator, bulldozer, and forklift. Other topics include OSHA Construction Safety, ATSSA Flagger Certification, hand and power tool use, print reading, and grading/earth moving.	Appo, Middletown, Odessa
Construction Technology	Students learn the concepts of skilled trades and management where projects make connections between science, technology, engineering and math with real-world opportunities. An exciting, hands-on opportunity awaits students as they learn to create and analyze construction documents, and build scale and life-sized prototypes.	William Penn
HVAC Technician	A three year instructional program that engages students in open-ended problem solving where they learn and apply real-world troubleshooting and service processes. It prepares students for further education and careers in commercial and large-scale refrigeration, cooling, heating and renewable energy. The program consists of three courses that are completed on the campus of the Delaware Technical Community College.	Woodbridge, Laurel, Delcastle, St. Georges
Arts, Audiovisual Technology & Communications		
Digital Business Communication	Provides students with a broad introduction to business that will include elements of business administration, entrepreneurship, financial analysis, and marketing. Students will study various business aspects, such as, business law, basic economic principles, ethics, entrepreneurship, financial analysis, marketing operations, and strategic management plans. Computer technology will help students fine tune their technical reading skills by learning and applying Microsoft Applications. Students will also learn basic html programming for web design application and will explore career planning and professional development. Communication skills, customer relations, leadership skills, and teamwork will be emphasized.	MOT Charter

PROGRAM NAME	PROGRAM DESCRIPTION	HIGH SCHOOLS WHERE OFFERED
Digital Communication Technology	A three course program that requires students to apply the skills and tools of digital designers used in graphic design, pixel-based imagery manipulation, HTML coding, digital video production, vector image manipulation, digital illustration, and digital publishing. Students utilize strategies to solve open-ended problems while learning how to apply technical skills, creative skills, industry knowledge, documentation techniques, and processes using modern, industry-leading technology and software. Client-based learning experiences and industry-mentored projects introduce students to a wide array of related careers in public relations, marketing, web and digital communications and printing.	Appo, Middletown, Brandywine, Mount Pleasant, Caesar Rodney, Dover, Sussex Academy, Newark, William Penn, Delmar, Lake Forest, Laurel, Milford, A.I. DuPont, Cab Calloway, Odessa, Seaford, Smyrna, Odyssey, Glasgow
Digital Media	Students are asked to use communication practices such as web design, video production, and game design within the context of problems that are relevant to their lives. They are also introduced to topics such as interface design, limits of computers, as well as societal and ethical issues.	William Penn, Delcastle
Digital Media & Imaging	Focuses on the creation of digital multi-media, including graphic design, journalism, audio productions and video productions. Students study both the art and the digital tools necessary to successfully create and manage digital media.	MOT Charter
Fashion & Apparel	A three course program where students learn construction skills for application to fashion including color, proportion and fit. Science principles are used to help students understand fibers to better determine appropriate application. Fashion business including the economic impact of the industry as well as marketing and management are studied along with employability skills like leadership, accountability, teamwork, and responsibility. This program prepares students for careers such as store manager, fashion designer, assistant buyer, and visual merchandiser.	Cape Henlopen, Glasgow
Business Management & Administration		
Academy of Business Information & Management (AOBIM)	A three credit program that introduces students to the skills needed to plan, organize, direct, and evaluate business functions. There are learning activities conducted in school and outside the classroom, and a 120-hour paid summer internship. Completion of the program is validated with a NAFTrack certification.	Caesar Rodney, Odyssey, Smyrna, Charter, Glasgow, William Penn, Christiana, Lake Forest, DMA, Las Americas ASPIRA, A.I. DuPont
ECHS Business Management	Most appropriate for students who have a broad-based interest in the field of management rather than a single area of concentration. Prepares students for careers as leaders of all types of organizations including government, nonprofit, and business. Introduces students to the skills needed to plan, organize, direct, and evaluate business functions essential to efficient and productive business operations through courses focusing on entrepreneurship, global and domestic economics, information technology, customer service and ethics.	Early College High
Junior Achievement	Structured to pair thematic learning experiences inside the classroom with real-life projects and applications at local business partner locations & job sites. Students will learn the basics of starting a business, developing entrepreneurial abilities, identifying business opportunities, learning personal finance skills, practicing business communication/writing, creating a business plan, marketing techniques, network building, economics, banking for individuals and businesses and the stages of business growth.	Seaford, Dickinson
Education & Training		
Education & Leadership	Engages students in developing a realistic understanding of teaching while exploring the importance and impact of teachers. Students will acquire the knowledge and skills needed to sustain their interest in the profession and cultivate the skills needed to be successful educators. Students will understand the rigors of a career in education and participate in classroom and field experiences relevant to pursuing a degree in education.	Appo, Middletown, Odessa
Teacher Academy	A dynamic opportunity for high school students to explore careers in early childhood, elementary, and secondary education. The program emphasizes the importance of equity, inclusion, and belonging while fostering a strong pipeline of rising education professionals committed to serving diverse student populations. Through a combination of classroom instruction, industry-related credentialing, and hands-on work-based learning experiences, such as field observations, teaching internships, and early college credit opportunities, students develop the knowledge, skills, and cultural competencies essential for today's education professionals.	Appo, Middletown, Caesar Rodney, Cape Henlopen, Dover, Howard, Great Oaks Charter, Glasgow, William Penn, Delmar, Indian River, Sussex Central, Laurel, Milford, Polytech, A.I. DuPont, McKean, Seaford, Smyrna, Woodbridge, Las Americas ASPIRA, Delcastle, Odessa, Odyssey, Lake Forest, Brandywine, Concord, Mount Pleasant, Sussex Tech, Hodgson, St. Georges, Newark, Christiana, Seaford

PROGRAM NAME	PROGRAM DESCRIPTION	HIGH SCHOOLS WHERE OFFERED
Finance		
Academy of Finance (AOF)	A three course program focused on banking and credit, financial planning, accounting, and insurance. Students gain career knowledge through a series of work-based learning activities that are conducted in school and outside the classroom, and a 120-hour paid summer internship. Completion of the program is validated with a NAFTrack certification.	Appo, Middletown, Caesar Rodney, Dover, DSCYF, Glasgow, William Penn, Delmar, Indian River, Sussex Central, Lake Forest, Laurel, Milford, A.I. DuPont, Smyrna, Woodbridge, Newark, Odessa, Howard
Accounting	Provides a foundation in necessary skills to keep proper books and records under Generally Accepted Principles of Accounting. Courses focus on accounting concepts, including the double-entry accounting system, accounting equation, and the accounting cycle.	Smyrna
Health Science		
Academy of Allied Health at DSU	A three course program that engages students in open-ended problem solving where they study topics such as medical terminology and human anatomy and physiology. Through exploration of the National Health Science Standards, students will acquire important skills necessary for healthcare professionals such as medical mathematics, communication, safety practices, legal responsibilities, and teamwork.	Early College High
Allied Health	A three course program where students are engaged in problem solving in topics such as medical terminology, human anatomy, and physiology. Students develop technical skills such as performing a wound culture, measuring vital signs, collecting a throat culture and performing a strep test.	Appo, Middletown, Cape Henlopen, Great Oaks Charter, Christiana, Delmar, Odessa, Indian River, Sussex Central, Milford, Smyrna, Odyssey Charter, Woodbridge, Delcastle
Biotechnology	Students explore biotechnology as it relates to agricultural, industrial, environmental, and medical fields of study through action research and participation in university research studies.	MOT Charter, Newark Charter, St. Georges
Biotechnology Laboratory Technician	Provides students with opportunities to gain meaningful, hands-on, laboratory experiences and activities that combine academics with real-world career skills and opportunities that impact healthcare.	Newark Charter
Emergency Medical Services	A three year program that engages students in foundational knowledge and psychomotor skills that prepares them for a career in Emergency Medical Services (EMS) as an Emergency Medical Technician (EMT) or a paramedic.	Christiana, Glasgow, Newark, Dover, Kent County Secondary Intensive Learning Center, St. Georges
Healthcare Technician	Students explore and prepare for the following medical professions: Phlebotomy, EKG, Clinical Laboratory; EMR, EMT, Paramedic, Nursing, Pre-Med and a variety of Healthcare Technician professions. William Penn has developed a partnership with Christiana Care and the University of Delaware.	William Penn
Nurse Assisting	In this three course program, students will acquire a variety of skills necessary for healthcare professionals, such as communication, safety practices, and legal responsibilities, through exploration of the National Health Science Standards. Students will also develop technical skills for providing personal care of patients.	Dover, Indian River, Conrad, Great Oaks Charter, Woodbridge, DAPSS, Delcastle, Howard, Hodgson, St. Georges
Patient Care Assistant	This program will prepare high school students for one of the fastest growing professions in the health care industry today, while also preparing them for post-secondary options following graduation. Classroom theory and hands on clinical components include nursing care, phlebotomy, cardiac function, nutrition, therapeutic communication, psychology, respiratory services, rehabilitation services, EKG readings, and empathetic care to the client, family and community. This two-year training program consists of classroom instruction, lab practicum, and supervised activities in clinics, long term care facilities, and other health care agencies.	Brandywine, Caesar Rodney, Concord, McKean, Milford, Mount Pleasant, Woodbridge
Public & Community Health	A three course program which engages students in a comprehensive approach to health, viewed from medical, behavioral, social, and environmental perspectives. Students will explore the fields of health and human services, investigating client needs and the skills and attitudes required of the effective human services worker.	Appo, Middletown, Great Oaks Charter, Christiana, Lake Forest, Milford, Odessa, Seaford, Las Americas ASPIRA

PROGRAM NAME	PROGRAM DESCRIPTION	HIGH SCHOOLS WHERE OFFERED
Hospitality & Tourism		
Culinary & Hospitality Management	A three and six course program that is supported by the National Restaurant Association Education Foundation. Students are trained in industry-specific skills used in all aspects of the restaurant and hospitality industry, along with employability skills like leadership, accountability, teamwork, and responsibility.	Appo, Middletown, Brandywine, Mount Pleasant, Caesar Rodney, Dover, Odessa, Indian River, Cape Henlopen, William Penn, Lake Forest, Laurel, Delcastle, Hodgson, Howard, St. Georges, Polytech, McKean, Seaford, Smyrna, Ferris School & Cleveland White, Christiana, Glasgow, Milford, Newark, Las Americas ASPIRA
Hospitality & Tourism Management	A three course program designed to prepare students for employment in the hospitality industry. Students explore management and technical skills needed for success and practice industry-specific skills that can be used in all aspects of the hospitality and tourism industry. Students also acquire employability skills such as leadership, guest services, accountability, teamwork, and responsibility.	Sussex Tech, Milford, Delmar
Hospitality Management: Lodging, Travel, and Tourism	Introduce students to the operation of lodging, travel, and tourism facilities and the care of guests who use these facilities. Students will learn the best practices for interacting with guests and for providing background services that enhance the guest experience.	Sussex Tech
Information Technology		
Cisco Networking Academy	A six course program that blends computer networking and computer science to help students develop a well-rounded and adaptable skill base. The program prepares students for continuing education and careers in computer networking and computer science, as well as those that may require skills in both fields.	Polytech, Hodgson, Howard, Sussex Tech
Computer and Information Sciences	A three course program where students will be taught the history of computers, types of computers, uses of computers. Students will also learn the different parts of internal and external hardware, the basics of software programming, and the basics of computer aided drafting. Students will prepare for the Microsoft Technology Associate in Security Fundamentals certification. They will also learn risk management techniques, domains and Active Directory, hardware and software firewalls, authentication, rights and permissions, attack methods, and network architecture.	Sussex Central
Computer Science	A three course program that engages students in areas such as algorithm development and programming to help solve problems that are relevant to their everyday lives. The program includes completion of two advanced placement courses.	Appo, Middletown, Brandywine, Concord, Mount Pleasant, Caesar Rodney, Dover, Cape Henlopen, Early College High, First State Military Academy, MOT Charter, Newark Charter, Odyssey Charter, Christiana, Newark, Glasgow, William Penn, Indian River, Milford, Conrad, Dickinson, Smyrna, Sussex Academy, Odessa, Woodbridge, Las Americas ASPIRA, DAPSS
IT Support Specialist	Gives students a work-based educational experience in addition to the traditional classroom setting. Students will have the opportunity to gain COMPTIA A+, Microsoft OS, and Microsoft Networking certifications. They will also work with the Colonial School District Technology department for internship opportunities to prepare them for a career in information technology.	William Penn
Manufacturing		
Industrial Maintenance Mechanic	A three year instructional program that engages students in open-ended problem solving where they learn and apply manufacturing processes and use modern, industry-leading technology and software. It prepares students for further education and careers in manufacturing. The program consists of four courses that are completed on the campus of the Delaware Technical Community College.	Dover, Kent County Secondary Intensive Learning Center
Manufacturing Engineering Technology	A three course program that engages students in open-ended problem solving where they learn and apply the engineering design process using industry standard technology and software. Students will apply math, science, and engineering standards to hands-on projects.	Caesar Rodney, MOT Charter, Delmar, Lake Forest, McKean

PROGRAM NAME	PROGRAM DESCRIPTION	HIGH SCHOOLS WHERE OFFERED
Marketing, Sales & Service		
Marketing Today	This is a three or six course program that engages students with the world of marketing services by focusing on how marketing is evolving in the digital age and how companies can be successful by implementing marketing strategies. Students gain career/industry knowledge through a series of work-based learning activities in and out of the classroom such as: internship, apprenticeship, co-op, project completion, of at least 60 hours. Students will be introduced to a wide array of careers such as data analytics, project and content management, digital marketing, marketing campaign management, demographic analytics, communications, etc.	Brandywine, Concord, Delmar, Mount Pleasant, Caesar Rodney, Glasgow, William Penn, Newark, MOT Charter, McKean, Newark Charter, A.I. DuPont, Seaford, Smyrna, Sussex Central, Cape Henlopen, Christiana
Science, Technology, Engineering & Mathematics		
Aerospace		Appo, Middletown, Odessa
Biomedical Science	A three course program where students learn the concepts of human medicine, physiology, genetics, microbiology, and public health. The program prepares students for further education and careers in biomedical sciences and healthcare.	Brandywine, Odyssey, Glasgow, Laurel, Conrad, First State Military Academy, Delcastle
BSD Design & Engineering	This is a three course program. Students start with Engineering Tools and Philosophy where they are introduced to skills related to digital design, precision manufacturing, and physical computing. The course offers a series of hands-on-minds-on design challenges. Product Design and Development presents more complicated projects that begin to build students' engineering habits, focusing on design with humans in mind and encouraging students to think about the user as part of the design process. Engineering Team Practicum uses work-based learning by connecting students to real world clients. For students seriously considering a degree in Engineering, AP Physics C-Mechanics is offered as an optional fourth course; it takes an engineering project-based approach to physics and offers the possibility of earning college credit.	Brandywine, Concord, Mount Pleasant
Engineering	A three and six course program where students learn and apply the engineering design process using modern technology and software. The program prepares students for further education and careers in engineering and engineering technology.	Appo, Middletown, Newark Charter, Sussex Academy, Christiana, Glasgow, Newark, William Penn, Indian River, Milford, Hodgson, Odessa, Polytech, Dickinson, Smyrna, Sussex Academy
Transportation, Distribution & Logistics		
Automotive Technology	A six course program that provides students with the mathematical, scientific, and mechanical principles and methods required to understand and perform the maintenance, repair and servicing of vehicles. Students participating in this pre-apprenticeship program will be prepared to enter into a Delaware Automotive Technician Tech C Registered Apprenticeship Program.	Delcastle, Hodgson, Howard, St. Georges, Polytech, Sussex Tech, McKean
Capstone for ALL Pathways		
Work Based Learning Practicum	Delaware's Work-Based Learning Practicum (WBLP) course can be administered in a classroom setting, online, or a hybrid of both. The supporting work-based learning (WBL) standards are designed to prepare students for a WBL immersion experience following the completion of a Career and Technical Education (CTE) program of study. The WBL immersion experience allows students to apply academic, technical and employability skills to real-world work in partnership with employers. Through meaningful work experience aligned with a given career pathway, students deepen interpersonal and professional skills necessary to successfully pursue postsecondary education and career goals.	Appo, Middletown, Odessa, Brandywine, Concord, Delcastle, Hodgson, Howard, St. Georges, Mount Pleasant, Dickinson, Caesar Rodney, Cape Henlopen, Dover, William Penn, Milford, A.I. DuPont, Cab Calloway, McKean, Seaford, Smyrna, Sussex Tech, Woodbridge, Conrad, Lake Forest, Delmar, Laurel, Kent County Secondary Intensive Learning Center, Odyssey, MOT Charter

Ten- Credit Career Programs Offered in Vo-Tech Schools

PROGRAM NAME		DELCASTLE	HODGSON	HOWARD	ST. GEORGES	POLYTECH	SUSSEX TECH
BUSINESS, COMMUNICATIONS, & COMPUTERS							
Academy of Finance and Business	Comprehensive program preparing students for careers in the financial services and banking industries.			X			
Broadcast Media	Prepares students for careers within the communications field, from technical specialties to on-air performance, video/audio production.					X	
Business, Finance and Marketing	Prepares students for today's competitive business environment with instruction Microsoft Office products, business ownership, business technology, Windows, accounting, and a host of business software programs.					X	X
Business Technology	Business Technology encompasses the development of skills in a wide range of hardware, software and services that keep companies running and enhance daily operations.	X					
Cisco Networking Academy	Prepares students for careers in computer networking and computers science with instruction in building and managing networks, problem solving and critical thinking, with certifications in CompTIA A+, CCENT, and CCNA Routing and Switching.		X	X		X	X
Digital Media	Program provides technical skills and practical experiences to plan, produce, and present creative communication using a variety of digital media with emphasis on video production, web and graphic design.	X					
Digital Publishing and Print Design	Prepares students for the graphic design industry with instruction in production, digital desktop publishing, advertising, commercial art, and a host of industry-leading software packages.						X
Graphic Arts	Prepares students for careers in the Printing industry with emphasis on operation of offset and screen printing presses, and instruction in pre-press software, imaging, estimating, sales, and graphic design.	X					
Information Technology & Networking	Provides students with the knowledge and training to prepare them for entry-level employment opportunities in the Information Technology (IT) industry. Students in this program will gain hands-on experience in the realm of computer hardware and operating systems, networking, software applications, and an introduction to web and video game design technologies.			X			
IT Academy	Information Technology course of study for future programmers/coders, includes fundamentals of computer logic, coding, and programming languages such as Python, Java, and Java Script.	X			X		
Media Broadcasting	Prepares students for a career in the communications industry with instruction in state-of-the-art equipment and technology, television/radio production, and editing through industry-recognized software, including Avid.						X
Web and Print Technology	Prepares students to apply graphics to the design, editing and publishing of documents, websites, and other digital media.				X		
CONSTRUCTION TECHNOLOGIES							
Building Construction	Prepares students to enter the building construction trade at the level of apprentice carpenter. Curriculum includes blueprint reading, site preparation, concrete forming, floor, wall, and roof framing, installation of windows/doors, exterior/interior walls.					X	
Carpentry	Lay out, construct, and repair buildings and homes using wood, aluminum, steel, vinyl, & composite materials.	X	X	X	X		
Carpentry/Construction Management	Prepares students for a career in construction management technologies and/or carpentry with instruction safe and proper power tool handling, job-site construction projects, blueprint reading, layout, materials, cost estimation, and much more.						X

PROGRAM NAME		DELCASTLE	HODGSON	HOWARD	ST. GEORGES	POLYTECH	SUSSEX TECH
Electrical and Green Energy	Prepares students for careers in residential, commercial, or industrial electrical capacities with instruction based on the National Electric Code, covering wiring new construction, maintenance, cutting, bending, installation, logical program controllers, and much more.						X
Electrical Trades	Install, operate, maintain, and repair residential, commercial, and industrial electrical systems.	X	X	X	X	X	
Heating, Ventilation & Air Conditioning	Install and service heating and cooling equipment, including commercial and residential units (at Sussex Tech, residential only).	X			X		X
Landscape Management and Environmental	Prepares students for careers in landscape management with instruction on environmental problems and problem solving, natural resources, ecology, aquatics, wildlife, wetlands, waste management, energy, law, soils, plant science, and much more.						X
Masonry	Build structures with brick, concrete, hard tile, marble, and related materials.		X			X	
Millwright & Welding Fabrication	Provide training in skills needed to build, maintain, troubleshoot, and repair industrial pumps and mechanical equipment.		X				
Plumbing	Assemble, install, and repair pipes, fittings, and fixtures.	X	X		X		
Sheet Metal Fabrication	Lay out, build, and install items made of steel, copper, stainless steel, and aluminum.	X					
Welding/Fabrication	Design, fabricate, and repair ferrous and non-ferrous metals using various welding processes.	X				X	X
HEALTH SERVICES							
Athletic Healthcare Services	Prepares students to utilize skills in the prevention, recognition, treatment, & rehabilitation of sports related injuries.				X		
Dental Assisting	Assist dentists at chairside; perform clerical functions and selected dental laboratory procedures.	X	X	X		X	
Dental Services	Prepares students for a career in dental services with instruction in hygiene, patient treatment, dental instruments and materials, record keeping, radiography, and infection control procedures.						X
Emergency Medical Services	Includes instruction in first aid and emergency medicine field techniques.				X		
Exercise Science & Wellness	An understanding of the principles of nutrition, dietary practices, and general wellness. Students will explore nutrient functions, meal planning, food safety, and nutrition's impact on patients' health and disease. Students will participate in hands-on activities, case studies, and group projects to learn methods to guide people toward healthier food choices.	X		X			
Health Diagnostics & Technology	Prepares students for healthcare careers, based upon Biomedical Science courses, through the nationally recognized Project Lead the Way program, as a foundation for pathways such as Medical Assisting, Nursing Technology, Surgical Technology, and other Allied Health occupations.	X					
Health Professions	Prepares students for careers in health-related fields, with an emphasis on nursing. Instruction topics include medical terminology, health care facilities, records, health issues, CPR/AED, first aid, anatomy and physiology.						X
Healthcare & Rehabilitation	Prepares students to begin earning entry level certifications to pursue careers requiring post-secondary degrees in areas such as athletic training, exercise science, occupational and physical therapy.					X	
Medical Assisting	Perform clinical, laboratory, and medical office procedures in a health care setting, applying scientific concepts.	X		X	X	X	
Nursing Technology	Perform tasks of personal care to patients under the supervision of a registered nurse or licensed practical nurse.	X	X	X	X		
Patient Care Services	Prepares students to earn certification for Nurse Aide and CAN.					X	
Physical Therapy-Athletic Health Care	Prepares students for a career in physical therapy/athletic health care with instruction medically-approved, sound preventative, and recuperative health practices.						X

PROGRAM NAME		DELCASTLE	HODGSON	HOWARD	ST. GEORGES	POLYTECH	SUSSEX TECH
Physical Therapy Medical Assisting	Prepares graduates to assume entry-level employment as Physical Therapy Aides and Certified Medical Administrative Assistants in the rehabilitative arena of the healthcare industry.		X				
Surgical Technology	Prepares students to be members of the surgical team in the operating room, sterilizing equipment, monitoring devices, passing instruments.	X					
Veterinary Science	A hands-on program of study that explores animal production and management, physical restraint and handling, conducting health exams, evaluation of behavior, principles of genetics and reproduction, animal selection through evaluation, anatomy and physiology, animal nutrition, basic veterinary practices, global food systems, ethics of food animal production, and current agricultural issues in order to foster an understanding of the steps involved in producing and marketing products for consumers.		X				
PUBLIC AND CONSUMER SERVICES							
Baking and Pastry Arts	This program is supported by the Delaware Restaurant Association Education Foundation. Students explore baking and pastry skills needed for success in the restaurant/hospitality industry. Students learn industry-specific skills that can be used in all aspects of the restaurant and hospitality industry along with employability skills like leadership, accountability, teamwork, and responsibility.				X		
Cosmetology	Provide a variety of beauty services related to hair, skin, and nail care (preparation for the state licensing exam).	X	X	X		X	X
Criminal Justice	Prepares students to pursue careers in law enforcement, public safety, corrections and security.					X	
Culinary Arts	Select, purchase, prepare, and produce foods in restaurants or other commercial settings.	X	X	X	X	X	
Early Care and Education	Prepares students for a career in early child care with instruction on development patterns of infants, toddlers, and preschool children. Instruction topics also include classroom management, methods, and child care regulations.					X	X
Fire Science and Rescue	Offers a comprehensive pathway for individuals seeking to embark on a fulfilling career in emergency response services. Graduates of this program are equipped to pursue entry-level positions in the fields of Fire, and Emergency Medical Technicians (EMTs), gaining valuable skills that are in high demand within the emergency services sector.	X					
Legal Administrative Assisting	Training focused on administrative and clerical duties required to work in law/court settings such as preparation of legal correspondence, summonses, complaints, motions, and subpoenas.			X			
Legal Support Services	Prepares students for careers in legal services, law enforcement, emergency response, corrections, security, and crime scene investigation.			X			
Legal Support Services and Criminal Justice	Prepares students for careers in legal services, law enforcement, corrections, security, and crime scene investigation.						X
Production & Imaging Technology	Provides learning experiences in a school-based production center focused on customized imaging products and services.	X					
Teacher Academy	Prepares students to pursue careers as paraprofessionals and/or to further their education toward K-12 teaching careers.	X		X		X	
Teacher Academy for Early Childhood Education	Prepares students to directly enter the workplace in positions at early education centers and for careers as preschool, elementary, and secondary educators. Program includes planning, preparing, and presenting activities in an onsite preschool.		X	X	X		
SCIENCE, ENERGY, AND DRAFTING							
Biotechnology	Master basic laboratory techniques and procedures with heavy emphasis on math and science.				X		
Chemical Lab Technology	Support chemists in researching, processing, and quality control in the chemical manufacturing field.	X					

PROGRAM NAME		DELCASTLE	HODGSON	HOWARD	ST. GEORGES	POLYTECH	SUSSEX TECH
Electronics	Prepares students to pursue careers in the area of electronics, such as electronics and instrumentation technicians, telecommunications, security, and mobile electronics installation.					X	X
Engineering Design	A Project Lead The Way engineering program focused on preparing students to enter engineering careers requiring post-secondary credits.					X	
Environmental Science	Prepares students to pursue careers in Environmental Science and Natural Resource Management, such as green park, and golf course technician, soil scientist, landscaper, wildlife protection and management.					X	
Technical Drafting & Design	The study of computer drafting techniques including AutoCAD, Architectural Desktop, Inventor, Revit, Solidworks, Soft Plan, 3D Studio, and Auto-Desk Design Academy.	X	X		X		
TRANSPORTATION							
Auto Body	Prepares students for the collision repair industry with instruction in painting techniques, glass installation, fabrication, cost estimation, alignment, refinishing, trim, and much more.	X	X			X	
Auto/Diesel Technology	Diagnose, repair, and service automobiles and trucks, including diesel engines.			X			
Automotive Technologies	Prepares students for the auto/diesel industry with instruction in basic engine components and vehicle operation systems, including electrical, engine repair, engine performance, heating and air conditioning, steering and suspension, and brakes.	X	X		X	X	X
Collision Repair	Prepares students for the collision repair industry with instruction in paint techniques, glass installation, fabrication, cost estimation, alignment, and much more.						X