

Dover High School Profile

Agricultural Science

Major	Environmental Science	Animal Science and Management
<p style="text-align: center;">Summary Of Major</p>	<p>This course of study provides students a variety of experiences in the fields of natural resources and ecology. Students explore hands-on projects and activities while studying topics such as land use, water quality, stewardship, and environmental agencies. NRE includes the study of the natural world including biomes, land, air, water, energy, use and care, as well as focuses on issues surrounding man’s interaction with the Earth. Students will select an ecosystem to study throughout the course and apply principles of natural resources and ecology from each unit of study to that ecosystem.</p>	<p>Students choosing this pathway will study animal production including life processes, health, nutrition, genetics, management, and processing of through the study of small animals, aquaculture, livestock, dairy, horses, and/or poultry.</p> 
<p style="text-align: center;">Future Careers</p>	<ul style="list-style-type: none"> • Environmental Control Officer • Atmospheric Control Officer • Environmental Chemist • Environmental Engineer • Environmental-Protection Officer • Environmental Scientist • Occupational Health and Safety Specialist • Conservation Scientist & Forester • Material Scientist • Physicists & Astronomers • Surveyor • Agriculture & Food Scientist 	<ul style="list-style-type: none"> • Veterinarian • Veterinarian Technician • Park Ranger • Animal Producer/Rancher • USDA Inspector • Agricultural Manager • Animal Control Officer
<p style="text-align: center;">Pathway Map</p>	<ul style="list-style-type: none"> • Natural Resources and Ecology • Environmental Sciences and Natural Resources 2 • AP Environmental Science • Pesticide Applicator License 	<ul style="list-style-type: none"> • Foundations of Animal Science I • Animal Science II • Animal Science III • Animal Science VI • AP Environmental Science (optional) • Early Career Exploration in Animal Science

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Business, Finance, and Marketing

Major	Marketing Management	Academy of Finance
<p style="text-align: center;">Summary Of Major</p>	<p>Students choosing this pathway will learn extensive marketing concepts, functions, and theories. Students will design advertisements, products, and window displays. Students will learn how companies utilize sales strategies and techniques to influence customer buying.</p>	<p>The National Academy Foundation’s (NAF) Academy of Finance (AOF) program of study is a three (3) course Career and Technical Education (CTE) program that engages students with the world of financial services by focusing 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 of the classroom, and a 120-hour paid summer internship. Completion of the program is validated with a NAFTrack Certification, NAF’s student certification assessment system. AOF courses introduce students to a wide array of careers such as personal financial advisor, tax preparation specialist, accountant, financial analyst, loan officer, account representative, insurance agent, and claims representative..</p>
<p style="text-align: center;">Future Careers</p>	<ul style="list-style-type: none"> • Public Relations Specialist • Buyer • Marketing Researcher • Editor • Research Analyst • Marketing Manager • Advertising Manager 	<ul style="list-style-type: none"> • Personal Financial Advisors • Financial Analysts • Credit Analysts • Accountants and Auditors • Budget Analysts • Loan Officers • Insurance Underwriters
<p style="text-align: center;">Pathway Map</p>	<ul style="list-style-type: none"> • Marketing Management II • Marketing Management III: NOTCI Workplace Readiness Certification #3033 • Early Career Exploration in Marketing and Communication (optional) 	<ul style="list-style-type: none"> • Fundamentals of Finance (FOF) • Principles of Accounting (POA) • Financial Services (FS)

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Communication Technology

Major	Digital Communication Technology
Summary Of Major	<p>Digital Communication Technology Pathway will allow students the opportunity to explore and understand the creative as well as technical skills in the area of graphic communication. Students will acquire the knowledge and skills to create professional-level elements and demonstrate and apply technical skills in multiple media forms of communications. The pathway provides knowledge to interact with a client properly, and how to use Adobe products in order to create digital media.</p>
Future Careers	<ul style="list-style-type: none"> • News Analyst • Market and Survey Researchers • Sales Representative • Product Promoter • Fashion Designer • Photographer • Artist • Drafter • Author • Computer Software Engineer
Pathway Map	<ul style="list-style-type: none"> • Foundations of Digital Design • Communication Technology I • Communication Technology II • Communication Technology III: Microsoft Certification

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Family and Consumer Science

Major	Culinary Arts	Early Childhood Education
Summary Of Major	Students choosing this pathway will explore the techniques and skills used in the food industry. Students will study nutrition, practice safety and sanitation procedures, and demonstrate the proper use of cooking equipment. A laboratory equipped with kitchen appliances and kitchen tools will be used to prepare meals and complete classroom projects.	Students enrolled in this pathway will learn the theories related to early childhood. The classroom activities will provide students a practical approach to learn the material. Students will create children’s books, complete projects, design classroom environments, and engage in out-of-classroom learning experiences. Technology will be integrated in class assignments and students will utilize art and theory to present models. Nutrition and health will be explored, and students will prepare meals in the classroom’s kitchen area.
Future Careers	<ul style="list-style-type: none"> • Food Service Manager • Chef • Head Cook • Food & Beverage Service Worker • Baker • Food Artist • Serving Supervisor • Butcher 	<ul style="list-style-type: none"> • Teacher • Social Worker • Psychologist • Athlete • Physician • Nurse • Early Childhood Education Spec. • Pediatrician
Pathway Map	<ul style="list-style-type: none"> • Fund. of Culinary Arts • Advanced Food Prod. • Culinary & Hospitality Professional • Culinary Arts: ProStart Cert. • ServSafe Certification • Early Career Exploration in Culinary 	<ul style="list-style-type: none"> • Human Growth Develop. • Early Childhood • Early Childhood Education 3: TEC-E1 Certification • CPR/AED Certification • Early Childhood Education Co-op
K-12 Academy		Future Careers
<p>The Delaware K–12 Teacher Academy program of study is a three (3) course Career and Technical Education (CTE) program that 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, thus creating a pipeline of high-quality students transitioning to the teaching profession. The program prepares students for a variety of careers in education such as elementary teacher, secondary teacher, paraprofessional, and special education teacher.</p>		<ul style="list-style-type: none"> • Elementary Teacher • Secondary Teacher • Adult Literacy Teacher • Special Education Teacher • Classroom Paraprofessional • Speech Therapist • School Counselor • School Administrator
		Pathway Map
		<ul style="list-style-type: none"> • Human Growth Development • Teaching as a Profession • Foundations of Curriculum and Instruction

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Manufacturing

Major	Production Technician	Logistics Technician
<p>Summary Of Major</p>	<p>The Manufacturing Production Technician program of study is a three (3) year, six (6) semester CTE program that engages students in open-ended problem solving where they learn and apply manufacturing processes and use modern, industry-leading technology and software. The program prepares students for further education and careers in manufacturing production. The CTE program consists of four-courses that are completed on the campus of the Delaware Technical Community College.</p>	<p>The Manufacturing Logistics Technician program of study is a two (2) year, four (4) semester Career and Technical Education (CTE) 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. The program prepares students for further education and careers in manufacturing and logistics. The CTE program consists of four-courses that are completed on the campus of the Delaware Technical Community College.</p>
<p>Future Careers</p>	<ul style="list-style-type: none"> • Electrical Equipment Installer/Repairer • Industrial Electronic Installer/Repairer/Manager • Industrial Machinery Mechanic • Industrial Maintenance Electrician • Industrial Maintenance Technician/Mechanic • Calibration Technician • Maintenance Repairer • Automated Manufacturing Technician • Quality or Logistical or Design or Electronics Engineer • Manufacturing or Mechanical Engineer 	<ul style="list-style-type: none"> • Industrial Truck and Tractor Operator • Materials Handler • Logistician • Quality Control Technician • Traffic Manager • Logistical Engineer • Engineering and Related Technologist • Design Engineer • Electronics Engineer
<p>Pathway Map</p>	<ul style="list-style-type: none"> • Year 1: Principles of Manufacturing • Year 2: Electrical Systems/ Controls • Year 3: Fluid Power • Year 4: Electro-Mechanical Systems 	<ul style="list-style-type: none"> • Year 1: Principles of Manufacturing • Year 2: Manufacturing Quality, Safety, and Practices • Year 3: Manufacturing Processes and Production • Year 4: Advanced Handling and Logistics

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Nurse Assisting and Patient Care

Major	Nurse Assisting and Patient Care Education
Summary Of Major	<p>Nursing and Patient Care Education Pathway will introduce students to the fundamentals of working in the healthcare industry. Students will learn the function and interrelationships of body systems and medical terminology. Students will acquire knowledge and skills to function effectively in a lab and clinical environments as a certified nursing assistant. Students in this pathway will be required to participate in a clinical experience and take the Delaware CNA certification test.</p> <p>Students are required to successfully complete a criminal background check and pass a random drug screening.</p>
Future Careers	<ul style="list-style-type: none"> • Licensed Practical Nurse • Registered Nurse • Medical Secretary • Physical Therapy Aide • Dentist • Doctor • Office Assistant • Sports Trainer • Emergency Medical Technician • X-ray Technician • Radiologist • Paramedic • Phlebotomist • Medical Assistant • Lab Technician • Certified Nursing Assistant
Pathway Map	<ul style="list-style-type: none"> • Fundamentals of Health Science • Essentials of Anatomy and Physiology • Certified Nursing Assistant III

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Technology/Skilled and Technical Science

Major	Architectural Engineering Technology	HVACR
Summary Of Major	Students choosing this pathway will explore principles and techniques of drafting. Students will do free-hand sketching and progress to Rivet. Students will create three-dimensional details related to industry. Advanced manual drafting assignments will be required as well as construction drawing interpretation, material identification, and use. Student will complete special projects and visit local businesses.	The HVACR pathway will provide students with the knowledge and skills necessary to repair and maintain a variety of cooling and heating systems. Students will explore the principles of sheet metal layout and processes, basic electricity, proper use of hand tools, and construction safety. Students completing the HVACR/Sheet Metal pathway will be eligible to enroll in an HVACR related training apprenticeship after graduation.
Future Careers	<ul style="list-style-type: none"> • Drafter • Engineer • Architect • Surveyor • Commercial Designer • Construction Manager • Graphic Designer 	<ul style="list-style-type: none"> • Sheet Metal Worker • Home Appliance Repairer • Maintenance and Repair Worker • Telecommunications Line Installer • Mechanics, Installers, and Repairers Manager • Plumbers, Pipe Layers, Pipefitters, and Steamfitters • Electrician
Pathway Map	<ul style="list-style-type: none"> • Foundations of Technology • Processes Architecture and Construction • Computer Aided Drafting III: Certiport Certification • Technology Education Co-op (optional) 	<ul style="list-style-type: none"> • HVACR/Sheet Metal Technology II • HVACR/Sheet Metal Technology III: EPA Certification • HVACR/Sheet Metal Technology Co-op (optional)

Tech Prep

Tech Prep Delaware is a technical and academic post-secondary preparation program that allows 10th, 11th, and 12th grade students to earn college credits while still in high school by using real-life work situations to teach technical skills. Tech Prep combines hands-on technical training and academics in a step-by-step format. Students in Level II courses are considered concentrators, while students in Level III courses are considered completers. Students are expected to complete a minimum of one pathway before graduation.

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Visual and Performing Arts

Elective Majors	Arts Academy
Future Careers	<i>Music</i>
	Band/Choral Director, Musician, Conductor, Teacher, Professional Singer, Music Production, Music Promotion, Audio Media, Sound Technology, Equipment Design, Instrument Design and Repair, Audio Engineering, Music Hardware/Software Development
	<i>Art</i>
	Interior Design, Advertising, Historic Preservation, Fashion Design, Illustrator, Art Critic, Teacher, Textile Industry, Artist, Gallery Owner, Art Director
	<i>Drama/Communication</i>
	Actor, Politician, Speech Writer, Political Commentator, Broadcast Journalist, Writer, Newspaper Columnist, Editor, Advertising Agency, Layout Artist, Press Operator, Media Buyer, Media Specialist, Teacher
	<i>Dance</i>
Musical Theater, Teacher, Dance Studio Owner, Professional Dancer, Dance Director/Conductor	
Pathway Maps	<i>Music</i>
	Band, Ensemble, Music Theory, Ear Training and Composition, AP Music Theory, Internship, Music Appreciation, Chorus, Select Ensemble
	<i>Art</i>
	Studio in Art, Drawing and Painting, Printmaking, Sculpture, AP Studio Art, Art Internship
	<i>Drama/Communication</i>
	Intro to Drama, Basic Theater/Advanced Theater, Speech & Debate, Journalism, Publications, Film Studies, Creative Writing, Video Production
	<i>Dance</i>
Dance 2, Dance Company	