



East Pennsboro Area School District

Career Pathway Maps

5 Major Career Clusters

12 Career Pathways / High School Programs of Study

High School Academic Offerings

Career-Based Learning Opportunities

Post-Secondary Options



East Pennsboro Area School District Career Pathway Maps

Pathway Cluster		Career Pathways East Pennsboro Area High School	Programs at CPAVTS
STEM Pathways	Engineering and Industrial Technology	<i>Engineering</i>	Construction and Maintenance: Carpentry, Electrical Construction/Maintenance, HVAC/R, Masonry Advanced Manufacturing: Automation, Robotics, and Electronics, Precision Machine Technology, Welding Transportation: Auto Collision, Auto Technology, Diesel Technology
		<i>Industrial Technology</i>	
	Science and Health Services	<i>Environmental Science</i>	
		<i>Sports and Fitness</i>	
		<i>Health Sciences</i>	
	Humanities Pathways	Arts and Communications	<i>Art and Graphic Design</i>
<i>Journalism and Media</i>			
<i>Performing Arts</i>			
Business and Computer Science		<i>Business and Entrepreneurship</i>	Transportation: Logistics and Warehouse Management Arts and Technology: Computer Networking, Computer Programming
		<i>Computer Science</i>	
Human Services		<i>Education and Social Services</i>	Human Services and Hospitality: Cosmetology, Criminal Justice, Culinary Arts, Early Childhood Education
	<i>Law and Government</i>		

Pathway Cluster: Broad division of the types of careers in the workforce based on similar knowledge, perspectives, and skills needed within those careers

Career Pathway: Specific focus area within a pathway cluster linked to a high school program of study (4 year academic plan of pathway-specific electives)



East Pennsboro Area School District Career Pathway Maps

Pathway Cluster		Related Professional Careers <i>4 Year College/University (Specific Post-Secondary Programs of Study)</i>	Related Skilled/Technical Careers <i>2 Year Community College, Technical/Trade School, Apprenticeship, On the Job Training</i>
STEM Pathways	Engineering and Industrial Technology	Engineering (Electrical, Mechanical, Materials), Mathematician, Architect, Computer Aided, Productions and Systems Design	Installation/Maintenance (HVAC, Electric, Plumbing, Welding etc), Manufacturing, Heavy Construction, Vehicle Maintenance and Repair (Engines, Fuels, etc), Precision Machinist
	Science and Health Services	Medical Doctor, Pharmacist, Veterinarian, Dentist, Physical Therapist, Nursing (RN), Athletic Trainer, Nutritionist/Dietician, Environmental Engineer, Agricultural Sciences, Wildlife Management	X-Ray Technician, Pharmacy Technician, Veterinarian Technician, Dental Hygienist, Physical Therapist Assistant, Nursing (LPN) , Laboratory Technician (Food Science), Landscape Development, Park Ranger, Animal Keeper
Humanities Pathways	Arts and Communications	Journalist, Public Relations, Technical Writing, Editor, Illustrator, Artist, Musician, Interpreter	Photography, Print Production, Advertising, TV Production, Performing Arts, Commercial Art
	Business and Computer Science	Accountant, Finance/Banking, Sales, Marketing, Stocks and Bonds, Management/Administration Economics, Software Developer	Finance-Teller, Real Estate, Retail Management, Secretary, Receptionist, Telecommunications, Data Processing, Information Technology
	Human Services	Teacher, Caseworker, Child Protective Services, Counselor, Law Enforcement, Lawyer, Public Policy, Sociologist, Psychologist, Military	Food Services, Hospitality and Recreation, Legal Assistant, Travel Agent, Culinary Arts, Child Care, Cosmetology, Firefighter, Corrections Officer, Teacher's Aide, Clergy, Military

Note: These are **broad** comparisons that are **only** intended to demonstrate the differences between careers that likely require a 4 year college preparation (professional careers) and careers that require 2 year/Community College/Trade School/OJT (skilled/technical careers). Some careers could fall into multiple pathways and could require different types of postsecondary training depending on the specific details of a particular job.



East Pennsboro Area School District Career Pathway Maps

Engineering and Industrial Technology Pathway Cluster (EIT)

Cultivate student interest, awareness, and application to careers related to technologies necessary to design and develop, install and maintain physical systems		Architecture and Construction Manufacturing Science, Technology, Engineering, and Mathematics Transportation, Distribution, and Logistics	
Grade 9	Grade 10	Grade 11	Grade 12
English I Math Earth Science American History Physical Education / Health 9	English II Math Biology Contemporary Global History Physical Education 10/ Drivers Education Career Exploration	English III Physical Education / Living Skills 11 Global Political Systems	English IV Economics and Personal Finance American Government Physical Education / Living Skills 12
At least 1 credit Math and 1 credit of Science			
Engineering Pathway			
World Language I Intro to Engineering Design	World Language II Principles of Engineering	World Language III Civil Engineering Honors Physics I Honors/Academic	World Language IV Physics II: Electricity and Magnetism Physics III: Modern Physics AP Calculus AB AP Statistics
Industrial Technology Pathway			
Intro to Technology Education Materials and Processes I Computer Aided Design I	<u>East Pennsboro</u> Materials and Processes II Computer Aided Design II <u>CPAVTS</u> Carpentry Electrical Construction/Maintenance HVAC/R Masonry Automation, Robotics, and Electronics Precision Machine Technology Welding Auto Collision Auto Technology Diesel Technology	<u>East Pennsboro</u> Materials Pro and Manufacturing Architectural Drawing and Design <u>CPAVTS</u> Carpentry Electrical Construction/Maintenance HVAC/R Masonry Automation, Robotics, and Electronics Precision Machine Technology Welding Auto Collision Auto Technology Diesel Technology	<u>East Pennsboro</u> <u>CPAVTS</u> Carpentry Electrical Construction/Maintenance HVAC/R Masonry Automation, Robotics, and Electronics Precision Machine Technology Welding Auto Collision Auto Technology Diesel Technology



East Pennsboro Area School District Career Pathway Maps

Science and Health Services Pathway Cluster (SHS)

Cultivate student interest in life and physical sciences, including the planning, managing, and providing of health information and the creation of and interpretation of scientific data and research

Health Science
Agriculture, Food, and Natural Resources
Science, Technology, Engineering, and Mathematics

Grade 9	Grade 10	Grade 11	Grade 12
English I Math Earth Science American History Physical Education / Health 9	English II Math Biology Contemporary Global History Physical Education 10/ Drivers Education Career Exploration	English III Physical Education / Living Skills 11 Global Political Systems	English IV Economics and Personal Finance American Government Physical Education / Living Skills 12
At least 1 credit Math and 1 credit of Science			

Environmental Science Pathway

Intro to Family and Consumer Science Intro to Technology Education	<u>East Pennsboro</u> Intro to Geographic Info Systems (GIS) Nutrition and Culinary Arts <u>CPAVTS</u> Horticulture Culinary Arts	<u>East Pennsboro</u> Ecology Academic Earth Science II Academic Breads, Pastries, and Food Science <u>CPAVTS</u> Horticulture Culinary Arts	<u>East Pennsboro</u> AP Environmental Science Chemistry I Honors/Academic <u>CPAVTS</u> Horticulture Culinary Arts
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Sports and Fitness Pathway

World Language I	World Language II Strength Training Entrepreneurship and Innovation	Lifetime Fitness Chemistry I Honors/Academic Marketing	Sports Leadership Physics I Honors/Academic Anatomy/Physiology Honors
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Health Sciences Pathway

World Language I Intro to Family and Consumer Science	<u>East Pennsboro</u> World Language II Nutrition and Culinary Arts <u>CPAVTS</u> Nursing Dental Assisting	<u>East Pennsboro</u> World Language III Chemistry I Honors/Academic Anatomy/Physiology Honors Psychology or Sociology (AP, I and II) Public Health Crisis and Response <u>CPAVTS</u> Nursing Dental Assisting	<u>East Pennsboro</u> World Language IV Advanced Chemistry I and II Molecular Biology Honors Physics I Honors/Academic AP Statistics <u>CPAVTS</u> Nursing Dental Assisting
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East Pennsboro Area School District Career Pathway Maps

Arts and Communications Pathway Cluster (AC)

Cultivate student awareness, interpretation, application, and production of visual, verbal, and written work		Performing and Visual Arts Audio/Video Technology Communications/Journalism	
Grade 9	Grade 10	Grade 11	Grade 12
English I Math Earth Science American History Physical Education / Health 9	English II Math Biology Contemporary Global History Physical Education 10/ Drivers Education Career Exploration	English III Physical Education / Living Skills 11 Global Political Systems	English IV Economics and Personal Finance American Government Physical Education / Living Skills 12
At least 1 credit Math and 1 credit of Science			
Art and Graphic Design Pathway			
Art I World Crafts Intro to Technology Education Intro to Family and Consumer Science	<u>East Pennsboro</u> Art II American Crafts Computer Graphic Design <u>CPAVTS</u> Advertising, Art, and Design	<u>East Pennsboro</u> Art III Digital Photography I Video Game Design Fashion Design <u>CPAVTS</u> Advertising, Art, and Design	<u>East Pennsboro</u> Art IV Honors AP Art History Digital Photography II Humanities <u>CPAVTS</u> Advertising, Art, and Design
Journalism and Media Pathway			
World Language I Desktop Publishing Design Thinking	World Language II Journalism and Publications New Media Communication	World Language III AP English Language and Composition Creative Writing Sociology I and II	World Language IV AP English Literature AP US Government and Politics AP Psychology Contemporary Social Studies
Performing Arts Pathway			
Concert Band/Choir Learn to Play Piano and Guitar Theatre Arts	Concert Band/Choir Music of Broadway and Disney Mythology	Concert Band/Choir Digital Photography I Music Theory I Humanities	Concert Band/Choir Music Theory II



East Pennsboro Area School District Career Pathway Maps

Business and Computer Science Pathway Cluster (BCS)

Cultivate student awareness of and skills for careers in the world of business, finance, information technology, and computer science		Business, Management, and Administration Finance Marketing, Sales, and Service Information Technology	
Grade 9	Grade 10	Grade 11	Grade 12
English I Math Earth Science American History Physical Education / Health 9	English II Math Biology Contemporary Global History Physical Education 10/ Drivers Education Career Exploration	English III Physical Education / Living Skills 11 Global Political Systems	English IV Economics and Personal Finance American Government Physical Education / Living Skills 12
At least 1 credit Math and 1 credit of Science			
Business and Entrepreneurship Pathway			
World Language I Microsoft Office I	World Language II Accounting I Entrepreneurship and Innovation Microsoft Office II and III	World Language III Marketing Finance and Investments Business Law Service Learning	World Language IV AP Economics AP Statistics Service Leadership
Computer Science Pathway			
World Language I Computer Science Essentials Intro to Technology Education	<u>East Pennsboro</u> World Language II Web Page Design I Video Game Design <u>CPAVTS</u> Computer Programming Computer Networking	<u>East Pennsboro</u> World Language III Web Page Design II Physics I Honors/Academic <u>CPAVTS</u> Computer Programming Computer Networking	<u>East Pennsboro</u> World Language IV AP Calculus AB AP Statistics <u>CPAVTS</u> Computer Programming Computer Networking



East Pennsboro Area School District Career Pathway Maps

Human Services Pathway Cluster (HS)

Cultivate student awareness of and skills for careers in education, counseling and social work, law enforcement, government, and hospitality and tourism.

Government and Public Administration
 Hospitality and Tourism
 Human Services (Education, Counseling, Social Work)
 Law, Public Safety, Corrections, and Security

Grade 9	Grade 10	Grade 11	Grade 12
English I Math Earth Science American History Physical Education / Health 9	English II Math Biology Contemporary Global History Physical Education 10/ Drivers Education Career Exploration	English III Physical Education / Living Skills 11 Global Political Systems	English IV Economics and Personal Finance American Government Physical Education / Living Skills 12
At least 1 credit Math and 1 credit of Science			

Education and Social Services Pathway

World Language I Intro to Family and Consumer Science	<u>East Pennsboro</u> World Language II Nutrition and Culinary Arts <u>At CPAVTS</u> Early Childhood Education Cosmetology Culinary Arts	<u>East Pennsboro</u> World Language III Relationships and Family Living Sociology I and II Service Learning <u>At CPAVTS</u> Early Childhood Education Cosmetology Culinary Arts	<u>East Pennsboro</u> World Language IV AP Psychology Service Leadership <u>At CPAVTS</u> Early Childhood Education Cosmetology Culinary Arts
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Law and Government Pathway

World Language I Philosophy and World Religions	<u>East Pennsboro</u> World Language II AP US History <u>At CPAVTS</u> Criminal Justice	<u>East Pennsboro</u> World Language III AP European History American Legal System Forensic Studies <u>At CPAVTS</u> Criminal Justice	<u>East Pennsboro</u> World Language IV AP US Government and Politics AP Economics Business Law Contemporary Social Studies <u>At CPAVTS</u> Criminal Justice
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