



2020-2021

East Pennsboro Area School District

Career Pathway Maps

5 Major Career Clusters

12 Career Pathways / High School Programs of Study

Naval Junior ROTC (NNDCC) Program

My EP Career Pathway Map

EP High School Graduation Requirement Worksheet



East Pennsboro Area School District Career Pathway Maps

Introduction

To help students select courses that align with a coherent four-year plan of study, the East Pennsboro Area High School provides **Career Pathway Maps** that provide students and families a sequence of how course offerings can match up with a specific area of interest. These maps were created collaboratively with input from all high school teachers, administrators, and school counselors to support student career development through the course selection process.

Students are **not** obligated to take courses only in a specific career pathway, however as all students must complete eight (8) credits of elective courses in their high school career, it is advised that they use their scheduling effectively to explore potential career interests and/or to develop skills and background knowledge necessary to an intended career field.

Each of the five (5) career clusters represent major sectors/industries of the workforce and economy, and within these clusters East Pennsboro has identified twelve (12) different career pathway options for students. Each map contains a reminder of each grade level's required courses along the top, and then a recommended sequence of courses broken down in grade-level columns. In addition to courses offered in our building, program offerings through the Cumberland-Perry Area Vocational Technical School (CPAVTS) are also included in their respective career pathways.

For example, if a student is interested in pursuing a career in computer programming, they would look at courses in the Computer Science pathway on the Business and Computer Science Career Pathway Map.

Career pathways are one component of the District's comprehensive student career development program (EP Pathfinders) that delivers career education and work standards to students K-12.



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	Engineering	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
		Industrial Technology	
	Science and Health Services	Environmental Science	
		Sports and Fitness	
		Health Sciences	
	Humanities Pathways	Arts and Communications	Art and Graphic Design
Journalism and Media			
Performing Arts			
Business and Computer Science		Business and Entrepreneurship	Transportation: Logistics and Warehouse Management Arts and Technology: Computer Networking, Computer Programming
		Computer Science	
Human Services		Education and Social Services	Human Services and Hospitality: Cosmetology, Criminal Justice, Culinary Arts, Early Childhood Education
		Law and Government	

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> Computer Aided Design II Intro to Geographic Information Systems <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> 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 Breads, Pastries, and Food Science <u>CPAVTS</u> Horticulture Culinary Arts	<u>East Pennsboro</u> Ecology Academic Natural Disasters <u>CPAVTS</u> Horticulture Culinary Arts	<u>East Pennsboro</u> AP Environmental Science Chemistry I Honors/Academic Climatology <u>CPAVTS</u> Horticulture Culinary Arts
Sports and Fitness Pathway			
World Language I Intro to Family and Consumer Science Nutrition and Culinary Arts	World Language II Strength Training Entrepreneurship and Innovation	Lifetime Fitness Chemistry I Honors/Academic Marketing	Sports Leadership Physics I Honors/Academic Anatomy/Physiology Honors
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 Chemistry II and II Honors Molecular Biology Honors Physics I Honors/Academic AP Statistics <u>CPAVTS</u> Nursing Dental Assisting



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 New Media Communication	World Language II Journalism I Multicultural Literature	World Language III AP English Language and Composition Yearbook I 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 Microsoft Office II Desktop Publishing	World Language II Accounting I Entrepreneurship and Innovation Microsoft Office 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 Naval Science I	<u>East Pennsboro</u> World Language II AP US History Naval Science II <u>At CPAVTS</u> Criminal Justice	<u>East Pennsboro</u> World Language III AP European History American Legal System Forensic Studies Naval Science III <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 Naval Science IV <u>At CPAVTS</u> Criminal Justice
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East Pennsboro Area School District Career Pathway Maps



NAVAL SCIENCE (NAVAL JUNIOR ROTC/NNDCC) Program

The NJROTC program provides students with the opportunity to learn about government, national security, and good citizenship. It promotes habits of orderliness, self-discipline, and personal responsibility; and develops a high degree of personal honor, self-reliance, teamwork, and leadership. Although students taking NJROTC incur absolutely no obligation for any military service, participation in NJROTC enhances their chances to earn ROTC scholarships and appointments to the Military Academies, and provides for enlistment in a higher pay grade for those interested in military service. Participation in NJROTC would be applicable to all Career Pathways.

Naval Science I	Naval Science II	Naval Science III	Naval Science IV
<p>Naval Science I introduces students to the meaning of citizenship, the elements of leadership, the value of scholarship in attaining life goals, and engenders a sound appreciation for the heritage and traditions of America.</p> <p>It includes an introduction to leadership; naval customs and traditions; naval ships; their missions and organizations.</p> <p>Students will take field trips, learn to drill, be involved in community activities, and have the opportunity to participate in a variety of extracurricular activities.</p>	<p>Naval Science II challenges students to continue to develop traits of citizenship, leadership, responsibility, self-discipline, and appreciation for the heritage and traditions of America.</p> <p>It includes leadership; naval history through World War II; naval ships and ship board evolution; naval weaponry; meteorology; navigation fundamentals; small boat seamanship; and survival training.</p>	<p>Naval Science III continues to develop the trait of leadership in students and introduces them to military justice and international law, while continuing the instruction of naval science curriculum including astronomy; navigation and naval history including interrelationship of sea power; and national security.</p> <p>For students who complete Naval Science III, this course will count in place of both Global Political Studies and American Government courses.</p>	<p>Naval Science IV continues to develop students' leadership traits with a more in-depth study of leadership traits, principles and practices including the study of human motivation, group dynamics, effective communication, and the authority and moral responsibility of Naval leaders.</p> <p>The course is oriented toward individual study with the students gaining leadership experience by assuming leadership positions in the other three Naval Science courses.</p>
<p>NJROTC Physical Education Waiver</p>		<p>Students may utilize NJROTC Waiver as .5 credits toward their Fitness and Wellness requirement. Sophomores and juniors may have this .5 credit applied toward their following years' Fitness and Wellness (PE) requirement after successful participation in NJROTC PT. This option may only be used one time during either their junior or senior year. NJROTC Waiver classes will not be calculated in GPA and class rank.</p>	



East Pennsboro Area School District Career Pathway Maps

My EP Career Pathway Map

Name: _____

Current Grade: 8th 9th 10th 11th 12th

Date: _____

Which career cluster are you currently pursuing at EP?	Engineering and Industrial Technology		Science and Health Services		Arts and Communications		Business and Computer Science		Human Services	
Which career pathway are you currently pursuing at EP?	Engineering	Environmental Science	Art and Graphic Design	Business and Entrepreneurship	Education and Social Services					
	Industrial Technology	Sports and Fitness	Journalism and Media	Computer Science	Law and Government					
		Health Sciences	Performing Arts							

Name two reasons why this career pathway matters to you.	Name two obstacles you will need to overcome to be successful in your future plans.
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1. _____

2. _____

1. _____

2. _____

How do you plan to use your high school experiences to prepare yourself for your future career?	I plan to take a challenging academic course load for four years to best prepare myself for a 2 or 4-year college program of study.	I plan to participate in dual enrollment with a local college/university to earn college credit.	I plan to apply to Cumberland-Perry Area Vocational Technical School to receive training and certification in a skilled trade/occupation.	I plan to participate in work-based learning experiences and will use my courses as a way to prepare me for work right out of high school .	I plan to enter the military after graduation and will use my high school experience as an opportunity to develop skills for successful service.	I plan to participate in school activities to improve my skills in athletic, academic, and/or creative performance.
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East Pennsboro Area School District Career Pathway Maps

EP High School Graduation Requirement Worksheet

Students are required to complete 25 credits in the following areas in order to be eligible for an East Pennsboro Diploma.

English: 4 credits

- English I** (1) or equivalent
- English II** (1) or equivalent
- English III** (1) or equivalent
- English IV** (1) or equivalent

Science: 3 credits

- Earth Science** (1)
- Biology I** (1)
- Chemistry I (1)
- Chemistry II* (0.5)
- Chemistry III*(0.5)
- Anatomy & Physiology* (0.5)
- Molecular Biology* (0.5)
- Ecology (1)
- AP Environmental Science* (1)
- Natural Disasters (0.5)
- Climatology (0.5)
- Forensic Studies (0.5)
- Public Health Crisis Response (0.5)
- Physical Science (0.5)
- Physics I (1)
- Physics II: Elect/Magnetism* (0.5)
- Physics III: Modern Physics* (0.5)

Social Studies: 3 credits

- American History** (1)
- Contemporary Global History** (1)
or AP US History (1)
- Global Political Systems** (0.5)
or AP European History* (1)
- American Government** (0.5)
or AP US Government & Politics* (1)

Math: 3 credits

- Algebra I, Part A (1)
- Algebra I, Part B (1)
- Algebra I (1)
- Algebra II (1)
- Geometry (1)
- Pre-Calculus (1)
- Statistics (1)
- Calculus (1)
- AP Calculus A/B* (1)
- AP Calculus B/C* (1)
- Algebra I, Part A LS (1)
- Algebra I, Part B LS (1)
- Functional Math I LS (1)
- Functional Math II LS (1)

Health/Physical Education: 2 credits

- Health & Phys. Ed. 9** (0.5)
- Drivers Ed. & Phys. Ed. 10** (0.5)
- Health: Liv. Skills & P.E. 11** (0.5)
- Health: Liv. Skills & P.E. 12** (0.5)

Career Education: 0.5 credits

- Career Exploration (0.5)**

Computer Elective: 0.5 credits

- Microsoft Office I (0.5)
- Web Page Design I (0.5)
- Computer Science Essentials (1)

Econ. & Personal Finance: 0.5 credits

- Economics & Pers. Finance (0.5)**
or AP Economics (0.5)

Electives: 8 credits

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- _____

Keystone Requirements

- Algebra**
- Biology**
- English**

Bold courses are required
*Only offered as AP/Honors