



Pathways Guide

Arts and Media Technology
Business, Finance, & Information Technology
Engineering & Industrial Technology
Health & Science Technology
Human Services



Compliance Statement

It is the policy of the Jersey Shore Area School District not to discriminate on the basis of race, sex, religion, color, national origin, age, handicap or limited English proficiency in its educational programs, services, facilities, activities or employment policies as required by Title IX of the 1972 Educational Amendments, Title VI and VII of the Civil Rights Act of 1964, as amended, Section 504 Regulations of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, Section 204 Regulations of the 1984 Carl D. Perkins Act or any applicable federal statute.

For information regarding programs, services, activities, and facilities that are accessible to and usable by handicapped persons or for inquiries regarding civil rights compliance, contact: Jersey Shore Area School District, 75 A&P Drive, Jersey Shore, PA 17740, 570- 398-1561; or the Director of the Office of Civil Rights, Department of Health, Education and Welfare, Washington, D.C.

Core Academic Courses

English (4 Credits)

- AP English (12)
- Biography
- English 9
- English 9 Honors
- English Honors 2
- English Honors 3
- English 10
- English 11
- English 11 College Prep
- Fantasy Fiction
- Technical Communications
- World Literature

Mathematics (4 Credits)

- Academic Algebra 1
- Academic Algebra 2
- Academic Geometry
- Academic Trig/Pre-Calculus / Honors Trig/Pre-Calculus
- Algebra 1
- AP Calculus
- AP Statistics
- Calculus
- Career Algebra 2
- Career Algebra 3
- College Readiness Algebra
- Geometry Honors
- Honors Algebra 1
- Honors Algebra 2
- SAT Math
- Technical Algebra and Trigonometry
- Unified Algebra and Trig

Science (3 or 4 Credits)

- AP Chemistry
- AP Environmental Science
- Analytical Chemistry
- Anatomy and Physiology
- Astronomy
- Biology 9
- Biology (Required 10-11)
- Chemistry
- Earth and Space Science
- Environmental Science 1
- Environmental Science 2
- Fundamentals of Chemistry (CHM100-PCNow)
- Genetics and Microbiology
- Honors Physics
- Organic Chemistry
- Physics
- Physics Honors

Social Studies (3 or 4 Credits)

- 19th Century History Honors
- 20th Century History Honors
- AP European History
- AP US History
- American Government*
- Crime and Law
- Economics
- United States History*
- US History 1*
- US History 2
- World History*
- Intro to Psychology

**Required Social Studies Courses*

Courses NOT NCAA Approved

- Financial Algebra for Business Applications
- Career Algebra 2, and 3
- SAT Mathematics

Career and Technical Education (CTE) Courses

Course Title	Pa CIP Codes	Career and Technical Education Program Requirements
Automotive Technology	47.0604	<p><i>In today's challenging job environment, it is more critical than ever before that our young people complete their high school education with strong academic and technical skills that prepare them for college-level studies and successful careers. We believe this foundation will allow students to succeed personally and also make a valuable contribution to an innovative and competitive Pennsylvania economy.</i></p> <p><i>Building this foundation is what Career and Technical Education (CTE) is all about. CTE programs at Jersey Shore Area Senior High School (JSASH) are designed to meet a dual mission -- developing students with College Readiness skills AND a Career Path. CTE is no longer an either/or choice, but a "BOTH/AND" opportunity for student success.</i></p> <p><i>The Department of Education has approved the twelve (CTE) programs offered here at (JSASH). These CTE programs are built around high expectations for student learning. These expectations include the development of strong reading, writing, numeracy, problem solving, and teamwork skills, in addition to the practical and tangible career skills that motivate students and help them develop a career path for future education and work.</i></p> <p><i>Students who enroll in a CTE program are committed to a program of study in their eleventh and twelfth grades - culminating in taking a nationally recognized skills test. Many colleges across the country award college credit for scoring high on these nationally recognized skills tests.</i></p>
Diversified Occupations	32.0105	
Building Property Maintenance	46.0401	
Business: Accounting Technology	52.0302	
Business: Entrepreneurship	52.0701	
Business: Sales, Marketing & Distribution	52.1801	
Child Care	19.0708	
Communications & Digital Media	10.9999	
Computer Systems Networking	11.0901	
Culinary / Inst. Food Workers	12.0508	
Health & Medical Assisting	51.0899	
Machining & Manufacturing Engineering	48.0501	
<p><i>For more information regarding the CTE programs offered at the (JSASH), contact one of our school counselors.</i></p>		

Cooperative Education and Diversified Occupations

The Cooperative Education and Diversified Occupations programs provides training through the use of business and industry to help bridge the gap between school and employment. Cooperative Education is a unique plan of education designed to integrate classroom study with planned, supervised, practical work experience connected with a Career and Technical Education Program of Study. The Diversified Occupations experience is a unique plan of education designed to integrate classroom study with planned, supervised, practical work experience which the district does **not** have a connected Career and Technical Education Program of Study. Students who meet the requirements of basic trade and technical training, good attendance, a good attitude and work habits, are recommended to the employer for on-the-job training. The Cooperative Education experience translates to a student grade and credit is granted towards graduation. **Students can earn up to four (4) elective credits through a Cooperative Education experience.**

Dual Enrollment Courses

Course Number/Course Title	Penn College NOW Requirements
BWM150 Introduction to Web Page Development	<i>Students may need to purchase a text book for a Penn College NOW and Lackawanna Community College courses. Talk to your guidance counselor if this is a financial difficulty.</i>
CHM100 Fundamentals of Chemistry	
EET124 Engineering, Technology & Society	<i>PCT Registered students will need to take a placement test to determine readiness for the class. Placement tests in Reading, Math and/or English will be required.</i>
EET145 Computer Systems & Networking 2	
ENL111 English Composition 1	<i>Penn College and Lackawanna Community College will provide a transcript upon request. Courses will also be recorded on the high school transcript.</i>
MTH123 Technical Algebra	
MTR100 Medical Terminology Survey	<i>Dual Enrollment courses will not be offered as independent study courses.</i>
MTR104 Basics of Medical Terminology	
BIO103 Human Anatomy and Physiology	<i>Due to an agreement between the Pennsylvania College of Technology and Jersey Shore Area School District; there is no cost to students or parents for enrolling into PCT Dual Enrollment.</i>
LCC- MGT105 Principles of Management	
LCC-ACC Financial Accounting	<i>There is a \$100 per credit tuition fee for all Lackawanna Community College Courses which must be submitted with registration prior to the start of the school year.</i>
LCC-CIS Computer Information Systems	

Future Ready PA Index

The Pennsylvania Future Ready Index, referred to as the Future Ready PA Index, allows school systems more flexibility for meeting school accountability measures and replaces the School Performance Profile. JSASD will use the **SmartFutures** program to manage the Future Ready expectations. The Future Ready PA Index indicators are as follows:

1. **State Assessment Measures**
 - Proficient and Advanced Scores on the Keystone Exams
 - Annual Growth Expectations (PVAAS)
2. **On-Track Measures**
 - English Language Proficiency
 - Chronic Absenteeism
3. **College and Career Measures**
 - Graduation Rate

- Career Readiness Benchmark
- Industry Based Learning (Career & Technical Education)
- Rigorous Courses of Study (Career Pathway Model)
- Post-Secondary Transition to School, Military, or Work

Pennsylvania Career Education and Work (CEW) Standards

Pennsylvania’s economic future depends on having a well-educated and skilled workforce. No student should leave secondary education without a solid foundation in Career Education and Work. It is the rapidly changing workplace and the demand for continuous learning and innovation on the part of the workers that drive the need to establish academic standards in Career Education and Work. Through a comprehensive approach, Career Education and Work Standards complement all disciplines and other academic standards. If Pennsylvania’s students are to succeed in the workplace, there are certain skills that they need to obtain prior to graduation from high school. These skills have been identified in the Career Education and Work Standards, but it is up to individual school districts to decide how they are to be taught. Districts can implement integration strategies within existing disciplines or can implement stand-alone courses to specifically address these standards.

CEW Standard 1: Career Awareness and Preparation
<i>Pennsylvania public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge pertaining to career interests and aptitudes.</i>
CEW Standard 2: Career Acquisition
<i>Pennsylvania public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills pertaining to career acquisition skills such as resume writing, interviewing, and communications.</i>
CEW Standard 3: Career Retention and Advancement
<i>Pennsylvania public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills pertaining to workplace skills, human resources, personal finance, and career retention.</i>
CEW Standard 4: Entrepreneurship
<i>Pennsylvania public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills pertaining to entrepreneurship and personal career goals.</i>

Learning Pathway Flowchart for Freshman Year

9th Grade Core Content Course Selection

Elective Courses

Select Two (2) Courses

Introduction to Art (.5)
Learn to Draw (.5)
Sculpture (.5)
Concert Band (.5)
Concert Choir (.5)
Family & Consumer Science (.5)
Music History (.5)
History of Rock and Roll 50s-70s (.5)
History of Rock and Roll 80s-2000s (.5)
Industrial Technologies Rotation (1)
Journalism (1.0)
Multimedia Design (.5)
German 1 (1)
Spanish 1 (1)

Career Pathway Course

Select One (1) Pathway Course

Arts and Communications

Multimedia Design, Into to Art,
Commercial Art

Business, Finance, and IT

Introduction to Business

Engineering & Industrial Technology

Pathway Rotation

Health Science

Health Occupations

Human Services

Introduction to Human Services
Family & Consumer Science

* Tentative list of courses

Arts and Communications Pathway

This pathway is designed to cultivate students' awareness, interpretation, application and production of visual, verbal and written work.

Pathway Focus Areas

*Communication Technology (CT)
*Performing Arts (PA)

*Music Industry (MI)
*Visual Arts (VA)

Are you interested in...

Acting
Attending concerts
Decorating
Fashion
Interviewing and reviewing
Multi-media
News reporting and writing
Performing in a band, chorus
Radio, TV, Film, Video

Can you...

Act
Be creative
Draw
Meet deadlines
Paint
Sculpt
Sing
Play an instrument
Write and conduct interviews
Write

Do you enjoy...

Developing creative solutions
Making videos
Performing in front of a live audience
Seeking creative ideas
Working with sound effects
Working with computers
Working with film props
Working with illustrations

If you answered "yes" to most of these questions, you might consider a future in one of the same occupations listed below based on their level of post-secondary training.

Sample Careers

Entry (OJT)

Circulation (CT)
Copy Person (CT)
Desktop Publisher (CT)
Film Loader (VA)
Floral Designer (VA)
Florist (VA)
Model (PA)
Newsroom Worker (CT)
Projectionist (VA)
Radio Operator (MI)
Set Designer (PA)
Sound Technician (MI)
Stage Hand (PA)
Stunt Performer (PA)

Technical/Skilled (1-3 yrs)

Actor (PA)
Animator (VA)
Artist (VA)
Billboard and Sign Artist (CT)
Book Illustrator (CT)
Broadcast Technician (VA)
Camera Technician (VA)
Choreographer (PA)
Computer Graphic Artist (VA, CT)
Dancer (PA)
Disc jockey (PA)
Designer / Stylist (VA)
Make-up Artist (VA)
Musician (PA, MI)
Photographer (VA)
Recording Engineer (MI)
Talent Agent (PA)
Video Manager (VA)
Web Designer (CT)

Professional (4 +yrs)

Advertising Creator (VA)
Art Director (VA)
Art or Music Teacher (CT)
Art Historian (VA)
Art Restorer (VA)
Cinematographer (PA)
Composer (PA)
Copy Writer (CT)
Curator (VA)
Film Editor (CT)
Illustrator (VA)
Industrial Designer (VA)
Music Critic (MI)
Music Director (PA)
News Broadcaster (CT)
Telecommunications (CT)
Writer (CT)

Check out Occupational Outlook Handbook – www.bls.gov/OCO/ or check your Choices profile

Holland Codes for Arts & Comm.

Artistic

Realistic

Arts & Communications: Art Industry Pathway Map

	Grade 9	Grade 10	Grade 11	Grade 12
Pathway Courses				
Pathway Courses Grades 9-12	Introduction to Art (.5)	Art & Design (.5)	Fiber Crafts (.5)	Sculpture (.5)
	Commercial Art (.5)	Pottery 1 (.5)	Pottery 2 (.5)	Pottery 3 (.5)
	Learn to Draw (.5)	Advanced Art (.5)	Learn to Paint (.5)	Mixed Media (.5)
			Stage & Set Design (.5)	Glass Crafts (.5)
Academic Courses				
English	English 9 or Honors 1	English 10 or Honors 2	English 11 or College Prep or Honors 3	Fantasy Fiction or ENG 111/Biography or AP English
Mathematics	Algebra, Academic Algebra 1 or Geometry Honors	Algebra 2, Academic Geometry or Honors Algebra 2	Trig/Pre-Calc Honors or Statistics or SAT Math	Unified Algebra & Trig or Financial Algebra for Business Application or Calculus
Science	Environmental Science 1 & Earth & Space or Biology 9	Biology or Chemistry	Physics	Chemistry or Environmental & Astronomy
Social Studies	US History or US 1	US 2 or World History	World or American Gov't & Elective	American Gov't & Elective Course
Required Courses	Comp. Applications (.5) Health 9 (.5) Physical Education (.5)	Physical Education (.5)	Personal Finance (.5) Physical Education (.5)	Physical Education (.5)
Electives	1 credit	2 credits	1 credit	2.5 credits
Scheduling Notes:			Advanced Placement Credits	Dual Enrollment Credits
			AP Calculus AP Chemistry AP European History AP English AP Environmental Science AP Statistics AP US History	MATH123 ENGL111 CHEM100
			Work-Based Learning Programs	
				Diversified Occupations (4.0)
			Grade 11	Grade 12

Arts & Communications Pathway Map

Communications Technology CTE Program 10.9999

CIP 10.9999	Grade 9	Grade 10	Grade 11	Grade 12
	Exploratory Courses	Introductory Courses	Career & Technical Education Courses	
Technical Courses Grades 11-12 6.0 credits 720 hours	Multimedia Design (.5)	Introduction to Communications & Digital Media (.5)	Communications & Digital Media 1 (3)	Communications & Digital Media 2 (3)
	Learn to Draw (.5)	Commercial Art (.5)		
Academic Courses				
English	English 9 or Honors 1	English 10 or Honors 2	English 11 or College Prep or Honors 3	Fantasy Fiction or ENG 111/Biography or AP English
Mathematics	Algebra 1 or Academic Algebra 1 or Geometry Honors	Algebra 2 or Academic Geometry or Honors Algebra 2	Trig/Pre-Calc Honors or Statistics or SAT Math	Unified Algebra & Trig or Financial Algebra for Business Application or Calculus
Science	Environmental Science 1 & Earth & Space or Biology 9	Biology or Chemistry	Physics	Chemistry or Environmental & Astronomy
Social Studies	US History or US 1	US 2 or World History	World or American Gov't & Elective	American Gov't & Elective Course
Required Courses	Comp. Applications (.5) Health 9 (.5) Physical Education (.5)	Physical Education (.5)	Personal Finance (.5) Physical Education (.5)	Physical Education (.5)
Electives	1.5 credits	2.5 credits	Required Web Page Development (.5)	1.5 Credits
Articulation Agreement Credit Opportunities			Advanced Placement Credits	Dual Enrollment Credits
Pennsylvania Highlands Community College (9.0-11.0) Harrisburg Area Community College (9.0) Westmoreland County Community College (12.0) Luzerne County Community College (10.0) Montgomery County Community College (9.0)			AP Calculus AP Chemistry AP European History AP English AP Environmental Science AP Statistics AP US History	BWM 105 MATH123 ENGL111 CHEM100
<div style="display: flex; align-items: center;"> </div> <p>Scheduling Notes:</p>			Work-Based Learning Programs	
				Cooperative Education (4.0)
			CTE Experience/Internship (4.0)	CTE Experience/Internship (4.0)
			CTE Industry Credentials & Certifications	
			Adobe Certified Professional	
			Grade 11	Grade 12

Arts & Communications: Music Studies Pathway Map

	Grade 9	Grade 10	Grade 11	Grade 12
Pathway Courses				
Technical Courses Grades 9-12	REQUIRED Choir/Band (.5/1)	REQUIRED Choir/Band (.5/1)	REQUIRED Choir/Band (.5/1)	REQUIRED Choir/Band (.5/1)
	Music History (.5)	American Musical Theatre 1 (.5)	Music Theory 1 (.5)	Song Writing (.5)
		American Musical Theatre 2 (.5)	Music Theory 2 (.5)	
	History of Rock 1 (.5)	History of Rock 2 (.5)	Voice 1 (.5)	Voice 2 (.5)
Keyboard 1 (.5)		Keyboard 2 (.5) or Guitar (.5)		
Academic Courses				
English	English 9 or Honors 1	English 10 or Honors 2	English 11 or College Prep or Honors 3	Fantasy Fiction or ENG 111/Biography or AP English
Mathematics	Algebra, Academic Algebra 1 or Geometry Honors	Algebra 2, Academic Geometry or Honors Algebra 2	Trig/Pre-Calc Honors or Statistics or SAT Math	Unified Algebra & Trig or Financial Algebra for Business Application or Calculus
Science	Environmental Science 1 & Earth & Space or Biology 9	Biology or Chemistry	Physics	Chemistry or Environmental & Astronomy
Social Studies	US History or US 1	US 2 or World History	World or American Gov't & Elective	American Gov't & Elective Course
Required Courses	Comp. Applications (.5) Health 9 (.5) Physical Education (.5)	Physical Education (.5)	Personal Finance (.5) Physical Education (.5)	Physical Education (.5)
Electives	+ 0.5 credits	Recommended Introduction to Business (1.0) + 0.5 credits	Recommended Stage Technology (.5)	Recommended: Business Law 1 (0.5) Accounting 1 (1.0)
Scheduling Notes: If taking Introduction to Business in Grade 10, student must drop one pathway elective, but not band/choir.			Advanced Placement Credits	Dual Enrollment Credits
			AP Calculus AP Chemistry AP European History AP English AP Environmental Science AP Statistics AP US History	MATH123 ENGL111 CHEM100
			Work-Based Learning Programs	
				Diversified Occupations (4.0)
			Grade 11	Grade 12

Business, Finance and Information Technology Pathway

This pathway is designed to prepare students in the world of business, finance and information services.

Pathway Focus Areas

***Accounting and Finance (F) *Business Management and Marketing (BM) *Information Technology (IT)**

Are you interested in...	Can you...	Do you enjoy...
A business environment Advertising Computers and technology Different work sites Insurance Office management Presentations to groups Sales Record keeping Telecommunications	Organize your time efficiently Pay attention to details Show initiative Solve problems Work easily with others Work Independently Work on a team Work with statistics Use computers and other technology	Following directions Learning new software programs Making budgets Meeting with groups Organizing a project Planning an event Preparing Financial reports Processing numbers and figures Selling products and services Working with technology

If you answered “yes” to most of these questions, you might consider a future in one of the same occupations listed below based on their level of post-secondary training.



Sample Careers

Entry (OJT)	Technical/Skilled (1-3 yrs)	Professional (4 + yrs)
Accounts payable Office Manager (BM) Administrative Assistant (BM) Bank Teller (BM) Book Keeper (F) Cashier (F) Computer Operator (IT) Customer Service Representative (BM) File Clerk (BM) Payroll Clerk (F) Reservation/Travel Agent (BM) Retail Sales Clerk (BM) School Secretary (BM) Telemarketer (BM) Title Searcher (F)	Bank Collection Officer (F) Claims Adjuster (F) Computer Programmer (IT) Computer Salesperson (BM) Desktop Publisher (IT) Medical Secretary (BM) Production Support Analyst (IT) Real Estate Agent (BM) Restaurant Manager (BM) Retail Buyer (BM) Sales Representative (BM) Software Engineer (IT) Tax Preparer (F)	Bank President (BM, F) Certified Public Accountant (F) Chief Executive Officer (BM) E-Commerce Analyst (IT) Economist (F) Financial Planner (F) Hospital Administrator (BM) Human Resources Manager (BM) Marketing Manager (BM) Operations Analyst (IT) Systems Analyst (IT) Tax Examiner (F)



Check out Occupational Outlook Handbook – www.bls.gov/OCO/ or check your Choices profile

Holland Codes for Business	Conventional	Enterprising
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Business, Finance & Information Technology Pathway Map: Accounting Technology CTE Program 52.0302

CIP 52.0302	Grade 9	Grade 10	Grade 11	Grade 12
Career & Technical Education Program Courses				
Technical Courses 9.0 credits 1080 hours	Computer Applications (.5)	Introduction to Business (1.0)	Personal Finance (.5) **Business Communications (.5)	Financial Algebra for Business Applications (1.0)
		Accounting 1 (1.0)	Accounting 2 (1.0)	Financial Accounting (1.0)
		Business Law 1 (.5) Business Law 2 (.5)	Principles of Management (1.0)	Business Leadership (1.0)
Academic Courses				
English	English 9 or Honors 1	English 10 or Honors 2	English 11 or College Prep or Honors 3	Fantasy Fiction or ENG 111/Biography or AP English
Mathematics	Algebra 1 or Academic Algebra 1 or Geometry Honors	Algebra 2 or Academic Geometry or Honors Algebra 2	Trig/Pre-Calc Honors or Statistics or SAT Math	Unified Algebra & Trig or Financial Algebra for Business Application or Calculus
Science	Environmental Science 1 & Earth & Space or Biology 9	Biology or Chemistry	Physics	Chemistry or Environmental & Astronomy
Social Studies	US History or US 1	US 2 or World History	World or American Gov't & Elective	American Gov't & Elective Course
Required Courses	Comp. Applications (.5) Health 9 (.5) Physical Education (.5)	Physical Education (.5)	Personal Finance (.5) Physical Education (.5)	Physical Education (.5)
Electives	2 credits	.5 credits	.5 credits	1.5 credits
Articulation Agreement Credit Opportunities			Advanced Placement Credits	Dual Enrollment Credits
Butler County Community College 9.0 Community College of Beaver County 9.0 Delaware County Community College 10.0 Lackawanna College 9.0-12.0 Luzerne County Community College 9.0 Northampton County Area Community College 9.0 Pennsylvania Highlands Community College 12.0			AP Calculus AP Chemistry AP European History AP English 16 AP Environmental Science AP Statistics AP US History	MGT 105 ACC105 MATH123 ENGL111 CHEM100
  <p>Scheduling Notes:</p>			Work-Based Learning Programs	
			Cooperative Education (4.0)	
			CTE Experience/Internship (4.0)	
			CTE Industry Credentials & Certifications	
			OSHA 10-Hour General Safety	
			Grade 11	Grade 12

Business, Finance & Information Technology Pathway Map: Sales, Marketing & Distribution CTE Program 52.1801

CIP 52.1801	Grade 9	Grade 10	Grade 11	Grade 12
Career & Technical Education Program Courses				
Technical Courses 9.0 credits 1080 hours	Computer Applications (.5)	Introduction to Business (1.0)	Personal Finance (.5) ***Business Communications (.5)	Advanced Marketing (2.0)
		Accounting 1 (1.0)	Marketing (1.0)	
		Business Law 1 (.5) Business Law 2 (.5)	Principles of Management (1.0)	Business Leadership (1.0)
Academic Courses				
English	English 9 or Honors 1	English 10 or Honors 2	English 11 or College Prep or Honors 3	Fantasy Fiction or ENG 111/Biography or AP English
Mathematics	Algebra 1 or Academic Algebra 1 or Geometry Honors	Algebra 2 or Academic Geometry or Honors Algebra 2	Trig/Pre-Calc Honors or Statistics or SAT Math	Unified Algebra & Trig or Financial Algebra for Business Application or Calculus
Science	Environmental Science 1 & Earth & Space or Biology 9	Biology or Chemistry	Physics	Chemistry or Environmental & Astronomy
Social Studies	US History or US 1	US 2 or World History	World or American Gov't & Elective	American Gov't & Elective Course
Required Courses	Comp. Applications (.5) Health 9 (.5) Physical Education (.5)	Physical Education (.5)	Personal Finance (.5) Physical Education (.5)	Physical Education (.5)
Electives	2 credits	.5 credits	.5 credits	1.5 credits
Articulation Agreement Credit Opportunities			Advanced Placement Credits	Dual Enrollment Credits
Harcum College 9.0 Lackawanna College 9.0 Pennsylvania Highlands Community College 9.0 Westmoreland County Community College 9.0			AP Calculus AP Chemistry AP European History AP English 17 AP Environmental Science AP Statistics AP US History	MGT 105 MATH123 ENGL111 CHEM100
  Scheduling Notes:			Work-Based Learning Programs	
			Cooperative Education (4.0)	
			CTE Experience/Internship (4.0)	CTE Experience/Internship (4.0)
			CTE Industry Credentials & Certifications	
			OSHA 10-Hour General Safety	
			Grade 11	Grade 12

Business, Finance & Information Technology Pathway Map: Entrepreneurship CTE Program 52.0701

CIP 52.0701	Grade 9	Grade 10	Grade 11	Grade 12
		Career & Technical Education Program Courses		
Technical Courses 9.0 credits 1080 hours	Computer Applications (.5)	Introduction to Business (1.0)	Personal Finance (.5) **Business Communications (.5)	Principles of Management (1.0)
		Accounting 1 (1.0)	**Fundamentals of Entrepreneurship (1.0)	**Creativity, Innovation, & Design (1.0)
		Business Law 1 (.5) Business Law 2 (.5)	Marketing (1.0)	Business Leadership (1.0)
Academic Courses				
English	English 9 or Honors 1	English 10 or Honors 2	English 11 or College Prep or Honors 3	Fantasy Fiction or ENG 111/Biography or AP English
Mathematics	Algebra 1 or Academic Algebra 1 or Geometry Honors	Algebra 2 or Academic Geometry or Honors Algebra 2	Trig/Pre-Calc Honors or Statistics or SAT Math	Unified Algebra & Trig or Financial Algebra for Business Application or Calculus
Science	Environmental Science 1 & Earth & Space or Biology 9	Biology or Chemistry	Physics	Chemistry or Environmental & Astronomy
Social Studies	US History or US 1	US 2 or World History	World or American Gov't & Elective	American Gov't & Elective Course
Required Courses	Comp. Applications (.5) Health 9 (.5) Physical Education (.5)	Physical Education (.5)	Personal Finance (.5) Physical Education (.5)	Physical Education (.5)
Electives	2 credits	.5 credits	.5 credits	1.5 credits
Articulation Agreement Credit Opportunities			Advanced Placement Credits	Dual Enrollment Credits
Pennsylvania Highlands Community College 12.0 Northampton County Area Community College 9.0 Delaware County Community College 10.0 Butler County Community College 9.0 Lackawanna College 9.0-12.0 Community College of Beaver County 9.0 Luzerne County Community College 9.0			AP Calculus AP Chemistry AP European History AP English AP Environmental Science AP Statistics AP US History	MGT 105 ACC105 MATH123 ENGL111 CHEM100
  <p>Scheduling Notes:</p>			Work-Based Learning Programs	
			Cooperative Education (4.0)	
			CTE Experience/Internship (4.0)	CTE Experience/Internship (4.0)
			CTE Industry Credentials & Certifications	
			OSHA 10-Hour General Safety	
			Grade 11	Grade 12

Engineering and Industrial Technology

This pathway is designed to cultivate students' interests, awareness and applications to careers related to technologies necessary to design, develop, install and maintain physical systems

Pathway Focus Areas

- | | |
|---|--|
| <ul style="list-style-type: none"> *Automotive and Transportation (TDL) *Building Trade Maintenance (BT) *Computer Aided Design (CAD) *Computer and Information Networking (ET) | <ul style="list-style-type: none"> *Construction Trades (CO) *Electronics and Computer Engineering (ET) *Manufacturing Technologies (M) |
|---|--|

Are you interested in...	Can you...	Do you enjoy...
Buildings and construction Computer technology Design and architecture Engineering Fitness and sports How things work Math and Science classes Precision work Production management Tools, equipment and materials Woodworking	Apply science and math to real world Organize reports and people Read and understand directions See a task through to completion Solve problems of a complex nature Understand directives and read maps Use a computer	Building with your hands Design/working with project, models, prototypes Operating tools and equipment Paying close attention to details Working with your hands Working in a lab setting Working on a team Travel

If you answered "yes" to most of these questions, you might consider a future in one of the same occupations listed below based on their level of post-secondary training.

Sample Careers



Apprenticeships and Entry Level (OJT)	Technical/Skilled (1-3 yrs)	Professional (4 + yrs)
Brick Mason (CO) Carpenter (CO) Diesel Mechanic (TDL) Electrician (CO) HVAC (CO) Machinist (CO) Plumber (CO) Carpet Installer (CO) Drywall Worker (CO) Freight Handler (TDL) Machine Operator (M) Roofer (CO) Warehouse Worker (TDL)	Air Traffic Controller (TDL) Auto Mechanic & Repair (TDL) Bus & Truck Driver (TDL) CAD/CAM Technician (M,ET) Civil Engineering Technician (ET) Diesel Mechanic (TDL) Electric Technician (M) Grader and Dozer Operator (CO) Laser Technician (M, ET) Metals Engineering Technician (M) Motorcycle Mechanic (TDL) Robotics Technician (ET) Taxi Driver (TDL)	Aeronautical Engineer (ET, TDL) Aerospace Engineer (ET, TDL) Airline Pilot (ET, TDL) Architect (ET, CO) Astronaut (ET) Chemical Engineer (ET) Civil Engineer (ET, CO) Computer Network Engineer (ET) Industrial Engineer (ET, M) Mechanical Engineer (ET, M) NASA Scientist (ET) Navigator (TDL) Nuclear Engineer (ET) Petroleum Engineer (ET) Transportation Engineer (ET, TDL)

Check out Occupational Outlook Handbook – www.bls.gov/OCO/ or check your Choices profile

Holland Codes for Eng. & Ind. Tech.	Realistic	Conventional
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Engineering & Industrial Technology Pathway Map



Automotive Technology CTE Program 47.0604

CIP 47.0604	Grade 9	Grade 10	Grade 11	Grade 12
	Exploratory Courses	Introductory Courses	Career & Technical Education Courses	
Technical Courses Grades 11-12 6.0 credits 720 hours	Automotive Technology Exploration (.25)	Introduction to Automotive Technology (.5)	Automotive Technology 1 (3)	Automotive Technology 2 (3)
Academic Courses				
English	English 9 or Honors 1	English 10 or Honors 2	English 11 or College Prep or Honors 3	Fantasy Fiction or ENG 111/Biography or AP English
Mathematics	Algebra 1 or Academic Algebra 1 or Geometry Honors	Algebra 2 or Academic Geometry or Honors Algebra 2	Trig/Pre-Calc Honors or Statistics or SAT Math	Unified Algebra & Trig or Financial Algebra for Business Application or Calculus
Science	Environmental Science 1 & Earth & Space or Biology 9	Biology or Chemistry	Physics	Chemistry or Environmental & Astronomy
Social Studies	US History	World History	American Government & Social Studies Elective (0.5)	Social Studies Elective (1.0)
Required Courses	Comp. Applications (.5) Health 9 (.5) Physical Education (.5)	Physical Education (.5)	Personal Finance (.5) Physical Education (.5)	Physical Education (.5)
Elective Credits	2.25 credits	3 credits	1 credit	1.5 credits
Articulation Agreement Credit Opportunities			Advanced Placement Credits	Dual Enrollment Credits
Allegany College of Maryland (12.0) Community College of Allegheny County (PA) (9.0) Community College of Philadelphia (9.0) Delaware County Community College (PA) (10.0) Harrisburg Area Community College (9.0) Johnson College (11.0) Lancaster County Career & Technology Center (11.0) Luzerne County Community College (9.0) Northampton County Community College (9.0) Pennsylvania College of Technology (6.0) Rosedale Technical College @ Pittsburgh (9.50) University of Northwestern Ohio (6.0)			AP Calculus AP Chemistry AP European History AP English AP Environmental Science AP Statistics AP US History	MATH123 ENGL111 CHEM100
  <p>Scheduling Notes:</p>			Work-Based Learning Programs	
				Cooperative Education (4.0)
			CTE Experience/Internship (4.0)	CTE Experience/Internship (4.0)
			CTE Industry Credentials & Certifications	
			OSHA 10-Hour Automotive Safety	Snap-on 504 Multimeter
			AC Delco Electrical State 1 & 2	PennDOT Certified Safety Inspector, Cat I
			AC Delco Battery Starting & Charging Systems	PennDOT Certified Emissions Inspector
			Grade 11	Grade 12



Engineering & Industrial Technology: Building Property Maintenance CTE Program 46.0401

CIP 46.0401	Grade 9	Grade 10	Grade 11	Grade 12
	Exploratory Courses	Introductory Courses	Career & Technical Education Courses	
Technical Courses Grades 11-12 6.0 credits 720 hours	Building Property Maintenance Exploration (.25)	Introduction to Building Property Maintenance Technology (.5)	Building Property Maintenance 1 (3)	Building Property Maintenance 2 (3)
Academic Courses				
English	English 9 or Honors 1	English 10 or Honors 2	English 11 or College Prep or Honors 3	Fantasy Fiction or ENG 111/Biography or AP English
Mathematics	Algebra 1 or Academic Algebra 1 or Geometry Honors	Algebra 2 or Academic Geometry or Honors Algebra 2	Trig/Pre-Calc Honors or Statistics or SAT Math	Unified Algebra & Trig or Financial Algebra for Business Application or Calculus
Science	Environmental Science 1 & Earth & Space or Biology 9	Biology or Chemistry	Physics	Chemistry or Environmental & Astronomy
Social Studies	US History or US 1	US 2 or World History	World or American Gov't & Elective	American Gov't & Elective Course
Required Courses	Comp. Applications (.5) Health 9 (.5) Physical Education (.5)	Physical Education (.5)	Personal Finance (.5) Physical Education (.5)	Physical Education (.5)
Electives	2.5 credits	3.5 Credits	1 credit	1.5 credits
Dual-Enrollment, Advanced Placement, & Articulation Agreement Credit Opportunities				
Allegany College of Maryland (12.0) Community College of Allegheny County (PA) (9.0) Community College of Philadelphia (9.0) Delaware County Community College (PA) (10.0) Harrisburg Area Community College (9.0) Johnson College (11.0) Lancaster County Career & Technology Center (11.0) Luzerne County Community College (9.0) Northampton County Community College (9.0) Pennsylvania College of Technology (6.0) Rosedale Technical College @ Pittsburgh (9.50) University of Northwestern Ohio (6.0)			AP Calculus AP Chemistry AP European History AP English AP Environmental Science AP Statistics AP US History	MATH123 ENGL111 CHEM100
 			Work-Based Learning Programs	
				Cooperative Education (4.0)
			CTE Experience/Internship (4.0)	CTE Experience/Internship (4.0)
			CTE Industry Credentials & Certifications	
			OSHA 10	
Scheduling Notes:			Grade 11	Grade 12


Engineering & Industrial Technology Pathway: Computer Systems Networking CTE Program 11.0901

CIP 11.0901	Grade 9	Grade 10	Grade 11	Grade 12
	Exploratory Courses	Introductory Courses	Career & Technical Education Courses	
Technical Courses Grades 11-12 6.0 credits 720 hours	Computer Systems Networking Exploration (.25)	Introduction to Computer Systems Networking (.5) Engineering, Technology & Society (.5)	Computer Systems Networking 1 (3)	Computer Systems Networking 2 (3)
Academic Courses				
English	English 9 or Honors 1	English 10 or Honors 2	English 11 or College Prep or Honors 3	Fantasy Fiction or ENG 111/Biography or AP English
Mathematics	Algebra, Academic Algebra 1 or Geometry Honors	Algebra 2, Academic Geometry or Honors Algebra 2	Trig/Pre-Calc Honors or Statistics or SAT Math	Unified Algebra & Trig or Financial Algebra for Business Application or Calculus
Science	Environmental Science 1 & Earth & Space or Biology 9	Biology or Chemistry	Physics	Chemistry or Environmental & Astronomy
Social Studies	US History	World History	American Government Economics	
Required Courses	Comp. Applications (.5) Health 9 (.5) Physical Education (.5)	Physical Education (.5)	Personal Finance (.5) Physical Education (.5)	Physical Education (.5)
Electives	2.25 credits	2.5 credits	1 credit	2.5 credits
Articulation Agreement Credit Opportunities			Advanced Placement Credits	Dual Enrollment Credits
Bucks County Community College (12.0) Butler County Community College (10.0) Community College of Allegheny County (9.0) Community College of Beaver County (10.0-11.0) Community College of Philadelphia (11.0) Delaware County Community College (9.0) Harrisburg Area Community College (7.0-13.0) Johnson College (10.0) Luzerne County Community College (9.0) Northampton County Community College (10.0) Reading Area Community College (9.0) Thaddeus Stevens College of Technology (9.0) Westmoreland County Community College (9.0)			AP Calculus AP Chemistry AP European History AP English AP Environmental Science AP Statistics AP US History	EET124 EET145 MATH123 ENGL111 CHEM100
  <p>Scheduling Notes:</p>			Work-Based Learning Programs	
				Cooperative Education (4.0)
			CTE Experience/Internship (4.0)	CTE Experience/Internship (4.0)
			CTE Industry Credentials & Certifications	
			CompTIA A+ (Plus)	CompTIA Network+ (Plus)
			Grade 11	Grade 12

Engineering & Industrial Technology Pathway: Construction Trades CTE Program

	Grade 9	Grade 10	Grade 11	Grade 12
	Exploratory Courses	Introductory Courses	Career & Technical Education Courses	
Technical Courses Grades 11-12 6.0 credits 720 hours	Construction Trades Exploration (.25)	Introduction to Construction Trades (.5)	Construction Trades 1 (3)	Construction Trades 2 (3)
Academic Courses				
English	English 9 or Honors 1	English 10 or Honors 2	English 11 or College Prep or Honors 3	Fantasy Fiction or ENG 111/Biography or AP English
Mathematics	Algebra 1 or Academic Algebra 1 or Geometry Honors	Algebra 2 or Academic Geometry or Honors Algebra 2	Trig/Pre-Calc Honors or Statistics or SAT Math	Unified Algebra & Trig or Financial Algebra for Business Application or Calculus
Science	Environmental Science 1 & Earth & Space or Biology 9	Biology or Chemistry	Physics	Chemistry or Environmental & Astronomy
Social Studies	US History or US 1	US 2 or World History	World or American Gov't & Elective	American Gov't & Elective Course
Required Courses	Comp. Applications (.5) Health 9 (.5) Physical Education (.5)	Physical Education (.5)	Personal Finance (.5) Physical Education (.5)	Physical Education (.5)
Electives	2.5 credits	3.5 Credits	1 credit	1.5 credits
Dual-Enrollment, Advanced Placement, & Articulation Agreement Credit Opportunities				
Allegany College of Maryland (12.0) Community College of Allegheny County (PA) (9.0) Community College of Philadelphia (9.0) Delaware County Community College (PA) (10.0) Harrisburg Area Community College (9.0) Johnson College (11.0) Lancaster County Career & Technology Center (11.0) Luzerne County Community College (9.0) Northampton County Community College (9.0) Pennsylvania College of Technology (6.0) Rosedale Technical College @ Pittsburgh (9.50) University of Northwestern Ohio (6.0)			AP Calculus AP Chemistry AP European History AP English AP Environmental Science AP Statistics AP US History	MATH123 ENGL111 CHEM100
  <p>Scheduling Notes:</p>			Work-Based Learning Programs	
			Cooperative Education (4.0)	
			CTE Experience/Internship (4.0)	CTE Experience/Internship (4.0)
			CTE Industry Credentials & Certifications	
			OSHA 10	
			Grade 11	Grade 12

Engineering & Industrial Technology: Machining & Manufacturing Technology CTE Program 48.0501

CIP 48.0501	Grade 9	Grade 10	Grade 11	Grade 12
	Exploratory Courses	Introductory Courses	Career & Technical Education Courses	
Technical Courses Grades 11-12 6.0 credits 720 hours	Machining Rotation (.25)	Intro to Machining & Manufacturing (.5)	Machining & Manufacturing 1 (3)	Machining & Manufacturing 2 (3)
Academic Courses				
English	English 9 or Honors 1	English 10 or Honors 2	English 11 or College Prep or Honors 3	Fantasy Fiction or ENG 111/Biography or AP English
Mathematics	Algebra, Academic Algebra 1 or Geometry Honors	Algebra 2, Academic Geometry or Honors Algebra 2	Trig/Pre-Calc Honors or Statistics or SAT Math	Unified Algebra & Trig or Financial Algebra for Business Application or Calculus
Science	Environmental Science 1 & Earth & Space or Biology 9	Biology or Chemistry	Physics	Chemistry or Environmental & Astronomy
Social Studies	US History	World History	American Government & Social Studies Elective (0.5)	Social Studies Elective (1.0)
Required Courses	Comp. Applications (.5) Health 9 (.5) Physical Education (.5)	Physical Education (.5)	Personal Finance (.5) Physical Education (.5)	Physical Education (.5)
Electives	2.25 credits	3 credits	1 credit	1.5 credits
Articulation Agreement Credit Opportunities			Advanced Placement Credits	Dual Enrollment Credits
Community College of Allegheny County (10.0) Triangle Tech (6.0) Pennsylvania College of Technology (3.0)			AP Calculus AP Chemistry AP European History AP English AP Environmental Science AP Statistics AP US History	MATH123 ENGL111 CHEM100
  <p>Scheduling Notes:</p>			Work-Based Learning Programs	
				Cooperative Education (4.0)
			CTE Experience/Internship (4.0)	CTE Experience/Internship (4.0)
			CTE Industry Credentials & Certifications	
			OSHA 10-Hour Manufacturing	NIMS Machining Level I-II
			Grade 11	Grade 12

Human Services (HS) Pathway

This pathway is designed to cultivate students' interests, skills and experiences for employment in careers related to family and human needs.

Pathway Focus Areas

*Child/Personal Care (CPC)

*Culinary Arts, Hospitality and Tourism (HT)

*Education and Counseling (E)

*Law, Public Safety and Government (LPG)

Are you interested in...	Can you...	Do you enjoy...
Aging adults Child development Counseling Family and social services Food preparation Owning your own business Teaching Working with people	Apply science and math to the real world Assume leadership Be conscientious and dependable Be creative Communicate well Organize well Plan and direct programs Plan budgets Use interpersonal skills Work with a team	Communicate services Counseling and advising people Handling customer complaints Helping and protecting others Interviewing people Searching for answers to human problems Selling products or services Serving others' needs Working with people

If you answered "yes" to most of these questions, you might consider a future in one of the same occupations listed below based on their level of post-secondary training.



Sample Careers

Entry (OJT)	Technical/Skilled (1-3 yrs)	Professional (4 + yrs)
Aerobics Instructor (HT) Armed Services Career (LPG) Bailiff (LPG) Building Trade Maintenance (HT) Child Care (CPC) Dry Cleaning Operator (CPC) Home Health Aide (CPC) Library Assistant (E) Postal Services Worker (LPG) Security Guard (LPG) Travel Agent (HT) Utility Worker (LPG) Waitress (HT)	Armed Services Career (LPG) Barber (CPC) Chauffer (HT) Cosmetologist (CPC) Crime Lab Technician (LPG) Fashion Designer (CPC) Flight Attendant (HT) Fire Fighter (LPG) Manicurist (CPC) Massage Therapist (CPC) Meat Cutter (HT) Mortician (CPC) Personal Trainer (CPC) Teacher's Aid (E) Truck Driver (CPC)	Athletic Agent (HT) City Manager (LPG) College Professor (E) Criminologist (LPG) Executive Chef (HT) Family Planner (HT) FBI Agent (LPG) Food Services Manager (HT) Funeral Director (CPC) Guidance Counselor (E) Hotel/Motel Management (HT) Lawyer (LPG) Marriage and Family Therapist (CPC) Paralegal (LPG) Park Ranger (LPG) Parole Officer (LPG) Psychologist (CPC) Teacher (E) Workforce Director (LPG)



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Holland Codes for Human Services	Social	Enterprising
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Human Services Pathway Map: Child Care CTE Program 19.0708

CIP 19.0708	Grade 9	Grade 10	Grade 11	Grade 12
	Exploratory Courses	Introductory Courses	Career & Technical Education Courses	
Technical Courses Grades 11-12 6.0 credits 720 hours	Intro to Human Services (.5)	ABCs of Child Care (.5)	Child Care 1 (3)	Child Care 2 (3)
	Family & Consumer Science (.5)	Intro to Baking & Pastries (.5)		
Academic Courses				
English	English 9 or Honors 1	English 10 or Honors 2	English 11 or College Prep or Honors 3	Fantasy Fiction or ENG 111/Biography or AP English
Mathematics	Algebra, Academic Algebra 1 or Geometry Honors	Algebra 2, Academic Geometry or Honors Algebra 2	Trig/Pre-Calc Honors or Statistics or SAT Math	Unified Algebra & Trig or Financial Algebra for Business Application or Calculus
Science	Environmental Science 1 & Earth & Space or Biology 9	Biology or Chemistry	Physics	Chemistry or Environmental & Astronomy
Social Studies	US History or US 1	US 2 or World History	World or American Gov't & Elective	American Gov't & Elective Course
Required Courses	Comp. Applications (.5) Health 9 (.5) Physical Education (.5)	Physical Education (.5)	Personal Finance (.5) Physical Education (.5)	Physical Education (.5)
Electives	1.5 credits	2.5 credits	Not Available	1.5 Credits
Articulation Agreement Credit Opportunities			Advanced Placement Credits	Dual Enrollment Credits
Community College of Philadelphia (10.0) Delaware County Community College (9.0) Harrisburg Area Community College (9.0) Luzerne County Community College (9.0) Pennsylvania Highlands Community College (11.0) Westmoreland County Community College (9.0)			AP Calculus AP Chemistry AP European History AP English AP Environmental Science AP Statistics AP US History	CHEM100 ENGL111 MATH123
  <p>Scheduling Notes:</p>			Work-Based Learning Programs	
				Cooperative Education (4.0)
			CTE Experience/Internship (4.0)	CTE Experience/Internship (4.0)
			CTE Industry Credentials & Certifications	
			Basic First Aid	OSHA Interview Skills
			CPR & AED	ServSafe Food Handler
			Penn State Getting Started with Center-Based Care	PA Mandated & Permissive Reporter
			Grade 11	Grade 12

Human Services: Culinary Arts CTE Program 12.0508

CIP 12.0508	Grade 9	Grade 10	Grade 11	Grade 12
	Exploratory Courses	Introductory Courses	Career & Technical Education Courses	
Technical Courses Grades 11-12 6.0 credits 720 hours	Intro to Baking & Pastries (.5)	Advanced Baking & Pastries (.5)	Culinary Arts 1 (3)	Culinary Arts 2 (3)
	Intro to Food Prep & Cooking (.5)	Advanced Food Prep & Cooking (.5)		
Academic Courses				
English	English 9 or Honors 1	English 10 or Honors 2	English 11 or College Prep or Honors 3	Fantasy Fiction or ENG 111/Biography or AP English
Mathematics	Algebra, Academic Algebra 1 or Geometry Honors	Algebra 2, Academic Geometry or Honors Algebra 2	Trig/Pre-Calc Honors or Statistics or SAT Math	Unified Algebra & Trig or Financial Algebra for Business Application or Calculus
Science	Environmental Science 1 & Earth & Space or Biology 9	Biology or Chemistry	Chemistry or Environmental & Astronomy	Physics
Social Studies	US History or US 1	US 2 or World History	World or American Gov't & Elective	American Gov't & Elective Course
Required Courses	Comp. Applications (.5) Health 9 (.5) Physical Education (.5)	Physical Education (.5)	Personal Finance (.5) Physical Education (.5)	Physical Education (.5)
Electives	1.5 credits	2.5 credits	0 available	1.5 credits
Articulation Agreement Credit Opportunities			Advanced Placement Credits	Dual Enrollment Credits
Community College of Philadelphia (10.0) Delaware County Community College (9.0) Harrisburg Area Community College (9.0) Luzerne County Community College (9.0) Pennsylvania Highlands Community College (11.0) Westmoreland County Community College (9.0)			AP Calculus AP Chemistry AP European History AP English AP Environmental Science AP Statistics AP US History	MATH123 ENGL111 CHEM100
  <p>Scheduling Notes:</p>			Work-Based Learning Programs	
				Cooperative Education (4.0)
			CTE Experience/Internship (4.0)	CTE Experience/Internship (4.0)
			CTE Industry Credentials & Certifications	
			OSHA 10-Hour General Safety	ServSafe Food Handler
			Grade 11	Grade 12

Health and Science Technologies Pathway

This pathway is designed to cultivate students' interests, skills and experiences for employment in careers related to science, agriculture, and health technologies.

Pathway Focus Areas

*Agriculture, Food and Natural Resources (AFN)

*Science, Technology and Math (STM)

*Health Sciences and Technologies (HS)

* Wellness (HS)

Are you interested in...

Conservation
Environment and conservation
Food production
Health care environment
Information systems
Medical research
Pharmacy
Physical therapy
Radiology
Science and medicine
Sports/fitness

Can you...

Apply a scientific theory to real life problems
Collect and analyze data from experiments
Pay attention to detail
Use a computer and technology
Work in a lab setting or medical facility
Work outdoors around animals and plants
Work with people in need
Work with science and math theories

Do you enjoy...

Developing conclusion from a database
Diagnosing and caring for sick animals
Making a contribution to society
Medical lab research
Solving problems
Working on a team
Working on cutting-edge scientific research
Working outdoors with wildlife
Working with numbers

If you answered "yes" to most of these questions, you might consider a future in one of the same occupations listed below based on their level of post-secondary training.

Sample Careers

Entry (OJT)

Health Science Careers

Dialysis Technician (HS)
EEG Technician (HS)
Home Health Aide (HS)
Hospital Worker (HS)
Optician (STM)
Patient Care Technician (HS)
Physical Therapy Aide (HS)

Science and Technology Careers

Animal Caretaker (AFN)
Breeder (AFN)
Data Entry (STM)
Extension Services Worker (AFN)
Farm Manager (AFN)
Food Conservation Worker (AFN)
Hazardous Waste Technician (STM)
Zoo Caretaker (AFN)

Technical/Skilled (1-3 yrs)

Health Science Careers

Certified Nursing Assistant (HS)
Dental Hygienist (HS)
Dental Lab Technician (HS, STM)
Emergency Medical Technician (STM)
Practical Nurse (HS)
Personal Trainer (STM)
Pharmacy Assistant (HS)
Radiological Technician (HS)
Respiratory Therapist (HS)
Sports Instructor (HS)

Science and Technology Careers

Fish and Game Worker (AFN)
Forest Conservationist (AFN)
Licensed Nano-technician (STM)
Sound Engineer (STM)

Professional (4 + yrs)

Health Science Careers

Athletic Trainer (HS)
Chiropractor (HS)
Dietician (HS)
Geneticist (STM)
Pharmacists (HS)
Physician (HS)
Physician Assistant (HS)
Registered Nurse (HS)

Science and Technology Careers

Chemist (STM)
Geologist (AFN)
Marine Biologist (AFN)
Soil Conservationist (AFN)
Veterinarian (AFN)
Zoologist (STM)

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Holland Codes for Health & Science

Social

Enterprising

Health & Science

Health & Medical Assisting CTE Program 51.0899

CIP 51.0899	Grade 9	Grade 10	Grade 11	Grade 12
	Exploratory Courses	Introductory Courses	Career & Technical Education Courses	
Technical Courses Grades 11-12 6.0 credits 720 hours	Introduction to Health Occupations (.5)	Introduction to Health & Medical Assisting (.5)	Health & Medical Assisting 1 (3)	Health & Medical Assisting 2 (3)
Academic Courses				
English	English 9 or Honors 1	English 10 or Honors 2	English 11 or College Prep or Honors 3	Fantasy Fiction or ENG 111/Biography or AP English
Mathematics	Algebra, Academic Algebra 1 or Geometry Honors	Algebra 2, Academic Geometry or Honors Algebra 2	Trig/Pre-Calc Honors or Statistics or SAT Math	Unified Algebra & Trig or Financial Algebra for Business Application or Calculus
Science	Environmental Science 1 & Earth & Space or Biology 9	Biology or Chemistry	Chemistry or Environmental & Astronomy	Physics
Social Studies	US History or US 1	US 2 or World History	World or American Gov't & Elective	American Gov't & Elective Course
Required Courses	Comp. Applications (.5) Health 9 (.5) Physical Education (.5)	Physical Education (.5)	Personal Finance (.5) Physical Education (.5)	Physical Education (.5)
Electives	2 credits	3 credits	Not Available	1.5 credits
Articulation Agreement Credit Opportunities			Advanced Placement Credits	Dual Enrollment Credits
Greater Altoona Career & Technology Center (9.0) Pennsylvania Highlands Community College (9.0)			AP Calculus AP Chemistry AP European History AP English AP Environmental Science AP Statistics AP US History	MATH123 ENGL111 CHEM100
  Scheduling Notes:			Work-Based Learning Programs	
				Cooperative Education (4.0)
			CTE Experience/Internship (4.0)	CTE Experience/Internship (4.0)
			CTE Industry Credentials & Certifications	
			OSHA 10-Hour Healthcare	AMCA Patient Care Technician
			First Aid, CPR, & AED	NHA Patient Care Technician
			Grade 11	Grade 12

Health & Science: Health Sciences Pathway Map

	Grade 9	Grade 10	Grade 11	Grade 12		
Pathway Courses						
Technical Courses	Health Occupations (.5)	Safety & First Aid (.5)	Medical Terminology Survey (.5)	Medical Terminology (1)		
	Grades 9-12	Family & Consumer Science (.5)	Intro to Health & Medical Assisting (.5)	Fundamentals of Chemistry (1)	Organic Chemistry (.5)	
Genetics & Microbiology (1)				Anatomy & Physiology (1)		
Academic Courses						
English	English 9 or Honors 1	English 10 or Honors 2	English 11 or College Prep or Honors 3	Fantasy Fiction or ENG 111/Biography or AP English		
Mathematics	Algebra, Academic Algebra 1 or Geometry Honors	Algebra 2, Academic Geometry or Honors Algebra 2	Trig/Pre-Calc Honors or Statistics or SAT Math	Unified Algebra & Trig or Financial Algebra for Business Application or Calculus		
Science	Environmental Science 1 & Earth & Space or Biology 9	Biology or Chemistry	Chemistry and/or Genetics & Microbiology	Organic Chemistry (.5) and Anatomy & Physiology		
Social Studies	US History or US 1	US 2 or World History	World or American Gov't & Elective	American Gov't & Elective Course		
Required Courses	Comp. Applications (.5) Health 9 (.5) Physical Education (.5)	Physical Education (.5)	Personal Finance (.5) Physical Education (.5)	Physical Education (.5)		
Electives	+1.5 credits	+2.5 credits	REQUIRED High School Nutrition (.5) +1.0 credits	REQUIRED Strength & Conditioning for Life Fitness (.5) +2.5 credits		
Scheduling Notes:			Advanced Placement Credits			
			Dual Enrollment Credits			
			AP Calculus AP Chemistry AP European History AP English AP Environmental Science AP Statistics AP US History		MTR100 Medical Terminology Survey MTR104 Medical Terminology MATH123 ENGL111 CHEM100	
			Work-Based Learning Programs			
			Diversified Occupations (4.0)			
			Grade 11	Grade 12		

