

SCIENCE & HEALTH PATHWAY



Do you like working with animals and plants? Math and science courses? Cutting edge technology? Solving problems? Research and data?

If so, this pathway may be for you!

Cultivating students' awareness, understanding and application in career areas that include:

AGRICULTURE
FOOD & NATURAL RESOURCES
CONSERVATION
ANIMAL SCIENCES

Sample Employers from this Pathway:

Animal Care Hospitals, Bingaman & Son Lumber Inc., BrightFarms, Conagra Brands, Conestoga Wood Specialties, Creative Plantscapes Inc., Kurt Weiss Greenhouses, Inc., Pik-Rite Inc., Reinhart Food Services, Rovendale Ag & Barn Inc., Tractor Supply Co., etc.

Central Pennsylvania's Agriculture Occupations

Prepared by **Advance Central PA**Source: Lightcast Q1 2023 Data Set

Food Service Managers

Related Work Experience

\$40,417

\$58,142

Entry Level Wages

Average Wages

Farmworkers, Farm, Ranch & Aquacultural Animals

Short-Term On-the-Job Training

\$17,703

\$33,685

Entry Level Wages

Average Wages

Soil & Plant Scientists

Bachelor's Degree

\$51,160

\$69,813

Entry Level Wages

Average Wages

Conservation Scientists

Bachelor's Degree

\$45,666

\$60,039

Entry Level Wages

Average Wages

Veterinarians

Doctoral or Professional Degree

\$72,360

\$104,364

Entry Level Wages

Average Wages

KNOW YOURSELF

Identify your values, strengths, and skills and how they relate to your career goals.

TRY OUT CAREERS

Interview a professional, participate in a job shadow or internship, and network.

WORK YOUR PLAN

Apply to the job, post-secondary training or education option that aligns with your career interests.



Know the required education or training; the job outlook; and the potential earning and advancement opportunities.

RESEARCH REQUIREMENTS

Look at all the options (on-the-job training, apprenticeship, or programs and costs) aligned with your career interests.

What courses are offered in the Agricultural Pathway? Choices vary at each school but may include the below list. Check with your counselor or advisor to learn more.

Agriculture Courses: Science Courses:

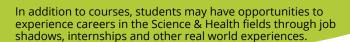
Advanced Placement Biology Ag Business Forestry **Advanced Placement Chemistry** Anatomy and Physiology Biology Horticulture Landscaping Chemistry

Plant Science Earth Science Ecology Soil Science

Veterinary Science Environmental Science

PA Dept. of Education Approved Programs:

Advanced Wood Products Agriculture Plant Systems & Technology Culinary/Food Preparation





Additional Central PA Agricultural Occupations

Occupation	Education Level	Entry Annual Wage	Average Annual Wage	Avg. Annual Openings
Agricultural Equipment Operators	MT OJT	\$22,609	\$34,807	25
Agricultural Inspectors	BD	\$45,625	\$56,896	8
Biological Technicians	BD	\$44,592	\$53,106	27
Buyers & Purchasing Agents	BD	\$46,962	\$61,506	67
Farm and Home Management Educators	MD	\$39,744	\$62,480	5
Farm Equipment Mechanics & Service Technicians	LT OJT	\$32,450	\$39,365	10
Farmworkers & Laborers, Crop, Nursery & Greenhouse	ST OJT	\$19,444	\$29,932	161
First-Line Supervisors of Farming, Fishing & Forestry Workers	WK EXP	\$50,930	\$32,395	22
Food Service Managers	WK EXP	\$40,417	\$58,142	89
Foresters	BD	\$58,816	\$67,868	4
Geoscientists	BD	\$65,246	\$80,744	10
Graders & Sorters, Agricultural Products	ST OJT	\$25,597	\$29,997	15
Logging Equipment Operators	MT OJT	\$29,397	\$38,946	19
Veterinary Assistants & Laboratory Animal Caretakers	ST OJT	\$24,471	\$30,369	55
Veterinary Technologists & Technicians	AD	\$28,611	\$34,278	40
Zoologists & Wildlife Biologists	BD	\$64,215	\$78,358	5

Prepared by Advance Central PA. Source: Lightcast Q1 2023 Data Set

LEGEND: ST OJT: Short-Term, On-the-lob Training

WK EXP: Related Work Experience BD/BD+: Bachelor's Degree

MT OIT: Moderate-Term, On-the-lob Training LT OIT: Long-Term, On-the-lob Training

PS/PS+: Post-Secondary Training MD/MD+: Master's Degree

AD/AD+: Associate Degree PhD/PROF: Professional Degree

Members of Career Ready Central PA, a regional organization whose mission is to "implement a comprehensive career education strategy to create and share resources and opportunities for schools, students, families and businesses that will produce a skilled, sustainable workforce," developed this brochure. Career Ready Central PA members represent area school districts, universities, workforce development agencies, local business/industry, and nonprofit organizations. Learn more at www.pathtocareers.org.



SCIENCE & HEALTH PATHWAY



Do you like helping people? Cutting edge technology? Solving problems? Research and data?

If so, this pathway may be for you!

Cultivating students' awareness, understanding and application in career areas that include:

HEALTH SCIENCE

MEDICINE

DENTISTRY

THERAPY/REHAB

NUTRITION/FITNESS

Sample Employers from this Pathway:

Buffalo Valley Lutheran Village, Evangelical Community Hospital, Geisinger Health System, Home Instead Senior Care, Nottingham Village, Phoenix Rehab and Health Services, Pivot Physical Therapy, RiverWoods, SUN Orthopaedics of Evangelical, Susquehanna Valley Dental Health Associates LLP, UPMC Susquehanna, etc.

Central Pennsylvania's Healthcare Occupations

Prepared by **Advance Central PA**Source: Lightcast Q1 2023 Data Set

Medical Records Specialists

Post-Secondary Training

\$33,478

\$43,730

Entry Level Wages

Average Wages

Emergency Medical Technicians

Post-secondary Training

\$26,799

\$35,039

Entry Level Wages

Average Wages

Dental Assistants

Post-Secondary Training

\$34,754

\$41,141

Entry Level Wages

Average Wages

LPNs, LVNs, & RNs

Post-Secondary Training to Bachelor's Degree

\$44,372 -

\$62,001 -

\$48,347

\$72,455

Entry Level Wages

Average Wages

Pharmacists

Doctoral or Professional Degree

\$109,579

\$118,346

Entry Level Wages

Average Wages

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What courses are offered in the Healthcare Pathway? Choices vary at each school but may include the below list. Check with your counselor or advisor to learn more.

Nutrition **Psychology** Anatomy & Physiology Advanced Science and Math

PA Dept. of Education Approved Programs:

Health Professions Certified Nurse Aide Health Professions Patient Care Technician **Dental Technology**

In addition to courses, students may have opportunities to experience careers in the Science & Health fields through job shadows, internships and other real world experiences.



Additional Central PA Healthcare Occupations

Occupation	Education Level	Entry Annual Wage	Average Annual Wage	Avg. Annual Openings
Athletic Trainers	BD	\$47,662	\$56,988	19
Audiologists	PhD/PROF	\$59,302	\$81,332	4
Chiropractors	PhD/PROF	\$85,832	\$87,104	17
Dental Hygienists	AD	\$59,164	\$64,118	37
Diagnostic Medical Sonographers	AD	\$61,962	\$70,824	14
Dietitians & Nutritionists	BD	\$49,364	\$60,393	19
Magnetic Resonance Imaging Technologists	AD+	\$64,216	\$70,676	7
Medical Assistants	PS	\$30,514	\$35,350	174
Medical Secretaries and Administrative Assistants	MT OJT	\$29,720	\$34,931	201
Nurse Midwives	MD	\$94,312	\$124,743	6
Optometrists	PhD/PROF	\$85,832	\$121,645	8
Phlebotomists	PS	\$30,848	\$35,558	47
Physical Therapists	PhD/PROF	\$70,532	\$87,257	37
Physician Assistants	MD	\$96,739	\$108,049	57
School Psychologists	PhD/PROF	\$61,162	\$72,694	12
Speech-Language Pathologists	MD+	\$62,752	\$79,717	23

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HUMAN SERVICES PATHWAY



Does helping others come naturally to you? Are you creative, compassionate, and patient?

If so, this pathway may be for you!

Cultivating students' awareness, understanding and application in career areas that include:

EDUCATION GOVERNMENT HOSPITALITY/TOURISM **HUMAN/FAMILY SERVICES** LAW/CRIMINAL IUSTICE **CONSUMER SERVICES** COUNSELING/MENTAL HEALTH

Sample Employers from this Pathway:

Community Action Agencies, Community Services Group, County Assistance Offices, County Behavioral Health Agencies, Federal Bureau of Prisons, Local Area School Districts, Colleges, Intermediate Units, and Universities, Local Law Firms, PA CareerLink®, STEP, Inc., YMCA, etc.

Central Pennsylvania's Human Services Occupations

Prepared by Advance Central PA Source: Lightcast Q1 2023 Data Set

Insurance Sales Agents

Moderate-Term On-the-Job Training

\$34,475 \$52,21.

Average Wages

Entry Level Wages

Police & Sheriff's **Patrol Officers**

Moderate-Term On-the-Job Training

\$45,074

\$68,246

Entry Level Wages

Average Wages

Child, Family & School Social Workers

Bachelor's Degree

\$36,480

\$46,692

Entry Level Wages Average Wages

Teachers & Instructors, Other

Bachelor's Degree

\$33.602

\$59.540

Entry Level Wages

Average Wages

Human Resource Specialists & Managers

Bachelor's Degree+

\$46,145 -

\$91,188 -

\$62,041 \$124,169 Entry Level Wages Average Wages

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What courses are offered in the Human Services Pathway? Choices vary at each school but may include the below list. Check with your counselor or advisory to learn more.

Political Science Psychology Sociology Child Development

PA Dept. of Education Approved Programs:

Cosmetology Criminal Justice/Protective Services Culinary

In addition to courses, students may have opportunities to experience careers in the Human Services fields through job shadows, internships and other real world experiences.





Additional Central PA Human Services Occupations

Occupation	Education Level	Entry Annual Wage	Average Annual Wage	Avg. Annual Openings
Chefs and Head Cooks	WK EXP	\$39,996	\$55,829	39
Childcare Workers	ST OJT	\$19,745	\$25,397	241
Correctional Officers & Jailers	MT OJT	\$46,241	\$58,712	229
Educational, Guidance, and Career Counselors & Advisors	MD	\$52,163	\$60,578	86
First-Line Supervisors of Food Preparation & Serving Workers	WK EXP	\$27,991	\$37,467	402
General & Operations Managers	BD	\$56,920	\$98,054	525
Hairdressers, Hairstylists & Cosmetologists	PS	\$18,537	\$33,138	120
Lawyers	PhD/PROF	\$58,252	\$104,871	31
Meeting, Convention & Event Planners	BD	\$44,114	\$58,819	33
Mental Health & Substance Abuse Social Workers	MD	\$29,543	\$39,828	29
Paralegals & Legal Assistants	AD	\$36,413	\$48,049	34
Preschool Teachers	AD	\$25,082	\$33,096	105
Real Estate Sales Agents	MT OJT	\$31,506	\$54,423	20
Secondary School Teachers	BD	\$59,334	\$67,217	208
Security Guards	ST OJT	\$24,839	\$30,723	162
Self-Enrichment Teachers	WK EXP	\$22,701	\$34,336	70
Social & Human Service Assistants	ST OJT	\$30,735	\$37,178	130

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ARTS & COMMUNICATION PATHWAY



Are you a creative thinker, imaginative, innovative, and original?

If so, this pathway may be for you!

Cultivating students' awareness, understanding and application in career areas that include:

> PERFORMING ARTS **VISUAL ARTS PUBLISHING ARTS**

Sample Employers from this Pathway:

Backyard Broadcasting PA LLC, Bloomsburg Theater Ensemble, Community Arts Center Inc., Contrast Communications, RiverStage Community Theatre, Seven Mountains Media LLC, Snyder County Times, Sunbury Broadcasting Corp., The Daily Item, The Graphic Hive, The Mifflinburg Free Press, The Standard-Journal, The Union County Times Inc., etc.

Central Pennsylvania's Arts & Communications Occupations

Prepared by Advance Central PA Source: Lightcast Q1 2023 Data Set

Recreation Workers

Short-Term On-the-Job Training

\$22,488

\$5つ, Average Wages

Entry Level Wages

Audio & Video Technicians

Short-Term On-the-Job Training

\$29.861

\$44.550

Entry Level Wages Average Wages

Graphic Designers

Bachelor's Degree

\$35.070

\$48.481

Entry Level Wages Average Wages

Editors

Bachelor's Degree

\$31.952

\$53,315

Entry Level Wages Average Wages

Commercial & Industrial Designers

Bachelor's Degree

\$45,974 \$62,192 Entry Level Wages Average Wages

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What courses are offered in the Arts & **Communication Pathway? Choices vary at each** school but may include the following:

Principles of Design Photojournalism Music Theory **Creative Writing**

Media and Technology Web Design

Technical Writing

PA Dept. of Education Approved Programs:

Advertising Art & Design

Computer & Networking Technology

In addition to courses, students may have opportunities to experience careers in the Arts & Communications fields through job shadows, internships and other real world experiences.



Additional Central PA Arts & Communications Occupations

Occupation	Education Level	Entry Annual Wage	Average Annual Wage	Avg. Annual Openings
Advertising Sales Agents	MT OJT	\$31,398	\$46,594	4
Broadcast Announcers & Radio Disc Jockeys	BD	\$21,558	\$38,458	8
Camera Operators: TV, Video & Film	BD	\$30,965	\$48,753	5
Coaches & Scouts	BD	\$24,190	\$44,927	96
Commercial & Industrial Designers	BD	\$45,974	\$62,193	4
Fine Artists, Including Painters, Sculptors & Illustrators	BD+	\$20,509	\$62,237	14
Floral Designers	MT OJT	\$23,782	\$30,118	11
Interior Designers	BD	\$45,718	\$64,342	6
Market Research Analysts & Marketing Specialists	BD	\$44,220	\$67,222	109
Marketing Managers	BD	\$78,087	\$111,790	29
Music Directors and Composers	BD	\$26,660	\$52,613	9
Painting, Coating & Decorating Workers	MT OJT	\$27,940	\$34,034	7
Photographers	MT OJT	\$26,976	\$38,845	7
Printing Press Operators	MT OJT	\$32,069	\$39,197	51
Public Relations Specialists	BD	\$34,573	\$51,601	37
Word Processors and Typists	ST OJT	\$34,730	\$38,727	52
Writers & Authors	BD+	\$36,795	\$57,514	7

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BUSINESS, FINANCE & INFORMATION TECHNOLOGY PATHWAY



Do you like managing money? Are you interested in using computers to improve systems? Would you like to run your own business?

If so, this pathway may be for you!

Cultivating students' awareness, understanding and application in career areas that include:

ACCOUNTING AND FINANCE
BUSINESS MANAGEMENT
ENTREPRENEURSHIP
INFORMATION TECHNOLOGY
MARKETING

Sample Employers from this Pathway:

Brubaker Group LLC, Larson Design Group Inc, Kellett & Associates P.C., Lawton Insurance Agency Inc., Lowe's Home Improvement, MePush Inc., MetLife, Mifflinburg Bank and Trust Co., Morgan Stanley, Olvany Insurance Agency, Sheetz, Sidekick Marketing Support, Susquehanna Community Bank, Weis Markets Inc., etc.

Central Pennsylvania's Business, Finance & Information Technology Occupations

Prepared by **Advance Central PA**Source: Lightcast Q1 2023 Data Set

Insurance Sales Agents

Moderate-Term On-the-Job Training

\$34,475

\$52,244

Entry Level Wages

Average Wage:

Computer User Support Specialists

Post-Secondary Training

\$37,302

\$52.164

Entry Level Wages

Average Wages

Web Developers

Bacherlor's Degree

\$65,649

\$91,982

Entry Level Wages

Average Wages

Accountants & Auditors

Bachelor's Degree

\$49,184

\$69,787

Entry Level Wages

Average Wages

Market Research Analysts & Marketing Specialists

Bachelor's Degree+

\$44,220

\$67,222

Entry Level Wages

Average Wages

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What courses are offered in the Arts & **Communication Pathway? Choices vary at each** school but may include the following:

Accounting I and II Business Finance

Personal Finance **Computer Science Coding**

Principles of Business **Technical Writing**

Principles of Finance Web Design/Programming

PA Dept. of Education Approved Programs: Computer & Networking Technology

In addition to courses, students may have opportunities to experience careers in the Business, Finance, and Information Technology fields through job shadows, internships and other real world experiences.

◇DECA △FBLA

Additional Central PA Business, Finance & Information Technology Occupations

Occupation	Education Level	Entry Annual Wage	Average Annual Wage	Avg. Annual Openings
Billing & Posting Clerks	MT OJT	\$31,435.41	\$37,784.25	92
Bookkeeping, Accounting & Auditing Clerks	MT OJT	\$30,623.89	\$39,807.11	396
Cashiers	ST OJT	\$18,222.59	\$22,210.21	1,330
Computer & Information Systems Managers	BD	\$91,741.51	\$119,472.33	54
Computer Programmers	BD	\$50,383.53	\$70,500.46	31
Financial Managers	BD	\$86,667.62	\$128,246.97	75
First-Line Supervisors of Retail Sales Workers	WK EXP	\$29,331.60	\$43,477.71	296
Human Resources Specialists	BD	\$46,144.57	\$62,041.02	116
Insurance Underwriters	BD	\$52,179.20	\$70,323.15	16
Loan Officers	BD	\$46,034.36	\$66,915.33	29
Network & Computer Systems Administrators	BD	\$55,079.01	\$69,114.72	38
Office Clerks	ST OJT	\$30,348.11	\$38,480.13	912
Personal Finance Advisors	BD	\$58,749.53	\$118,951.82	26
Retail Salespersons	ST OJT	\$22,211.59	\$29,672.85	1,034
Securities, Commodities & Financial Services Sales Agents	BD	\$37,255.34	\$62,009.97	66
Software Developers	BD	\$72,863.23	\$99,396.72	82
Tellers	ST OJT	\$27,363.14	\$31,203.70	120

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MD/MD+: Master's Degree

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ENGINEERING & INDUSTRIAL TECHNOLOGY PATHWAY



Do you like to solve problems in a logical way? Are you curious about the way things work? Do you like working with technology?

If so, this pathway may be for you!

Cultivating students' awareness, understanding and application in career areas that include:

> ARCHITECTURE **CONSTRUCTION ENGINEERING** MANUFACTURING TRANSPORTATION **DISTRIBUTION & LOGISTICS**

Sample Employers from this Pathway:

Advanced Concrete Systems Inc, Apex Homes of PA LLC, Heister House Millworks, GAF, Larson Design Group, LIVIC Civil, Mid-Penn Engineering Corp., PennDOT, Playworld Systems Inc., PMF Industries, Inc., PPL Electric Utilities, Ritz-Craft Homes, SEKISUI KYDEX, Thermal Product Solutions (TPS), Zartman Construction Inc., etc.

Central Pennsylvania's Engineering & Industrial Technology Occupations

Prepared by Advance Central PA Source: Lightcast Q1 2023 Data Set

Carpenters & Electricians

High School Diploma+

\$34,644-

\$38,221 -**\$51,665 \$57,019**

Welders, Cutters, Solderers & Brazers

Moderate-Term On-the-Job Training

\$37.397

\$44,220

Entry Level Wages Average Wages

Supervisors - Mechanics. **Installers & Repairers**

Related Work Experience

\$50.591

\$68,406

Entry Level Wages Average Wages

Automotive Service Technicians & Mechanics

Post-secondary Training

\$29,882

\$41.772

Entry Level Wages

Average Wages

Civil Engineers

Bachelor's Degree

\$63.923

\$82.510

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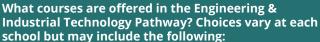


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Advanced Math and Science **Computer Assisted Drafting** Introduction to Coding

Introduction to Engineering **Mechanical Drafting**

PA Dept. of Education Approved Programs:

Advanced Precision Machining Advanced Wood Products Mfg Auto Technology Carpentry Collision Repair Technology Computer & Networking Technology **Construction Trades**

Diesel & Truck Technology **Drafting & Design Technology Electrical Systems Technology HVAC & Plumbing** Masonry Mechatronics Welding Technology





In addition to courses, students may have opportunities to experience careers in the Engineering & Industrial Technology fields through job shadows, internships and other real world experiences.

Additional Central PA Engineering & Industrial Technology Occupations

Occupation	Education Level	Entry Annual Wage	Average Annual Wage	Avg. Annual Openings
Architects	BD+	\$57,058	\$81,454	12
Automotive Body and Related Repairers	LT OJT	\$32,558	\$44,952	42
Brickmasons and Blockmasons	PS	\$40,241	\$60,454	18
Bus & Truck Mechanics & Diesel Engine Specialists	LT OJT	\$36,675	\$45,870	65
Chemical Engineers	BD+	\$76,933	\$108,472	4
Computer Numerically Controlled Tool Programmers	PS	\$40,790	\$52,588	6
Electrical & Electronic Engineering Technicians	AD	\$40,096	\$54,742	22
Supervisors of Construction Trades & Extraction Workers	WK EXP	\$49,638	\$70,552	145
Health & Safety Engineers	BD	\$73,046	\$90,339	14
Industrial Truck & Tractor Operators	ST OJT	\$34,442	\$40,456	180
Inspectors, Testers, Sorters, Samplers & Weighers	MT OJT	\$34,544	\$41,005	163
Maintenance & Repair Workers	MT OJT	\$31,798	\$43,707	406
Operating Engineers & Construction Equipment Operators	MT OJT	\$39,420	\$51,940	153
Packaging & Filling Machine Operators & Tenders	MT OJT	\$30,406	\$38,810	163
Plumbers, Pipefitters & Steamfitters	PS	\$39,129	\$55,982	72
Production, Planning & Expediting Clerks	MT OJT	\$36,514	\$46,692	63
Surveyors	BD+	\$48,075	\$64,428	10

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