Course Catalog 2021-2022

The Mifflin County Academy of Science & Technology

THE ACADEMY

Our Mission:

Prepare each student for success in tomorrow's careers.

Our Vision:

For all students to excel in a technical career pathway with the confidence to face all challenges and opportunities

Table of Contents

Career and Technical Programs

Agriculture Electives....4-5

Automotive Mechanics....6-7

Collision Repair....8-9

Construction Trades....10-11

Cosmetology....12-13

Culinary Arts....14-15

Early Childhood Childcare....16-17

Electrical Installation....18-19

Mechatronics....20-21

Medical Science....22-23

Precision Machining....24-25

General Information

SOAR Credits....26

Non-Traditional Careers....27

High-Priority Occupations....27

Admissions Policy....28

2021-2022 Application....29

Penn College Now....30-33

Adult Education Opportunities....34-35

The information contained in this catalog was current and accurate at the time of printing, but is subject to change without notice.

For up-to-date information visit: www.theacademy.net

PA DEPARTMENT OF LABOR
IN-DEMAND OCCUPATION

Agriculture Electives

The mission of Agricultural Education is to prepare students for successful careers and a lifetime of informed choices in the global agriculture, food, fiber and natural resources system. Through agricultural education, students are provided opportunities for leadership development, personal growth and career success. Today, over 800,000 students participate in formal agricultural education instructional programs offering a thorough knowledge in the growing and producing of plants and livestock, marketing, management, finance, and production skills.

Grow your knowledge in these areas:

- Agri-Science
- Animal & Vet Science
- Plant & Soil Science
- Agricultural Mechanics
- Wildlife & Fishery Science
- SAE & FFA Leadership
- Horticulture
- Nursery Landscape
- Food Science

What can I do with a career in this field?

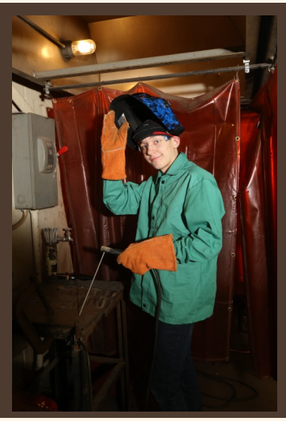
Graduates in this field can enter the workforce armed with the certifications they receive at The Academy. Likewise, students can further their education to become agriculturalists at a local, state, national, or global level which spans from farmers to foresters, veterinary to food scientists, and wildlife biologists to florists.

CERTIFICATIONS

- PA Pesticide Applicator
- Beef Quality Certification
- Youth Quality Care Assurance
- National Safe Tractor & Machinery Operation
- PA Skills Certificate
- OSHA
- Pet First Aid/CPR

Co-Op Eligible!

Upperclassmen may be hired at local companies to work during the school day, earning real-world experience and building their resumes.



The Academy Links College Credit Opportunities

Dual Enrollment: Students in this program will have the opportunity to earn dual enrollment credits through Penn College Now program through Penn College of Technology by being concurrently enrolled in Penn College and The Academy.

- Non-Traditional Occupation (Female)

THE ACADEMY

Eligible To:

☑ **Mifflin County Students**

PA DEPARTMENT OF LABOR IN-DEMAND & HIGH-PRIORITY OCCUPATION

Automotive Mechanics

The Automotive Mechanics Technology program provides a hands-on approach to developing skills, allowing students to practice team concepts and to appropriately interact with peers which will help them in the workplace. The program also emphasizes customer relations and instructs student in the use of proper etiquette in a service economy.

Learn the latest advances in the automotive service industry.

- Automotive Electrical and Electronic Systems
- Brake Repair and Installation
- Drive Train and Engine Performance
- Suspension and Steering Systems
- Heating and Cooling Systems
- Tools and Fasteners
- Safety

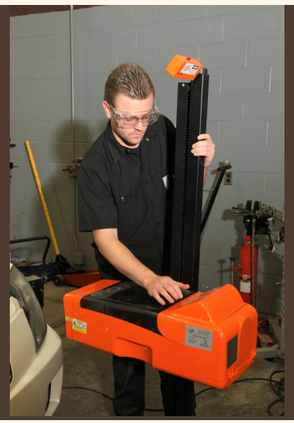
What can I do with a career in this field?

Entry-level service technicians often perform tasks, such as: safety inspections, basic maintenance (lubrication and filter changes) and preparing new and pre-owned vehicles for the consumer market. With advanced education and experience, you can also become a parts manager, business owner, master technician, service advisor or service manager.

CERTIFICATIONS Co-Op Eligible!

- **EPA 609 Refrigerant Recovery Recycling**
- **SP2 Safety and Pollution**
- **PA Safety Inspection**
- **OBDII Emission Certification**
- **Pro-Cut Brake Lathe**
- **ASE Student Certifications**
- **PA Skills Certificate**

Upperclassmen may be hired at local companies to work during the school day, earning real-world experience and building their resumes.



The Academy Links College Credit Opportunities

- SOAR qualified program (CIP 47.0604)

SOAR: Students may qualify for several free credits at participating colleges across Pennsylvania, such as: Pennsylvania College of Technology, Thaddeus Stevens College of Technology, and Harrisburg Area Community College.

Dual Enrollment: Students in this program will have the opportunity to earn dual enrollment credits through Penn College Now program through Penn College of Technology by being concurrently enrolled in Penn College and The Academy.

- Non-Traditional Occupation (Female)

THE ACADEMY

Eligible To:

- ☑ **Mifflin County Students**
- ☑ **Juniata County Students**
- ☑ **Adult Certification Classes**

PA DEPARTMENT OF LABOR HIGH-PRIORITY & IN– DEMAND OCCUPATION

Collision Repair

The Automotive Collision Repair program is designed for students with a keen interest in motor vehicles and an eye for color, shape, and design. It takes a skilled auto body technician to make damaged vehicles look new again, and that's exactly what you will learn to do. Students straighten bent frames, repair dents, replace body panels and put on the finishing touches with custom paint designs.

Put a dent in these areas of auto collision, repair and restoration:

- Vehicle Design and Construction
- Non-structural Repairs
- Structural Repairs
- Welding and Cutting Procedures
- Refinishing, Tinting, and Blending
- Estimating
- Mechanical and Electrical Systems
- Safety

What can I do with a career in this field?

Gear up for opportunities like automotive collision and repair shop owner, auto collision repair technician, detailer, disassembly specialist, estimator, painter, paint preparation technician or unibody frame technician.

CERTIFICATIONS

- **EPA 609 Refrigerant Recovery Recycling**
- **PA Safety Inspection**
- **SP2 Safety and Pollution**
- **PA Skills Certificate**

Co-Op Eligible!

Upperclassmen may be hired at local companies to work during the school day, earning real-world experience and building their resumes.

The Academy Links College Credit Opportunities

- SOAR qualified program (CIP 47.0603)

SOAR: Students may qualify for several free credits at participating colleges across Pennsylvania, such as: Pennsylvania College of Technology and Thaddeus Stevens College of Technology.

Dual Enrollment: Students in this program will have the opportunity to earn dual enrollment credits through Penn College Now program through Penn College of Technology by being concurrently enrolled in Penn College and The Academy.

- Non-Traditional Occupation (Female)

THE ACADEMY

Eligible To:

- ☑ **Mifflin County Students**
- ☑ **Juniata County Students**
- ☑ **Adult Certification Classes**

PA DEPARTMENT OF LABOR
IN-DEMAND OCCUPATION

Construction Trades

The Construction Trades field is one that is expected to have tremendous growth over the next 10 years with over 100,000 becoming available across the United States. This program serves as a blueprint for those who want to enter a building trades, maintenance or construction field. Students get entry-level industry-validated training that allows them to practice applying the skills that will make them successful in the job market.

Nail down important skills such as:

- Building Plans & Blueprint Reading
- Power Tools and Equipment
- Residential Electricity
- Basic Plumbing
- Site and Building Layout
- Floor & Roof Framing and Repairs
- Wall Framing and Insulation
- Concrete, Block, and Brick Masonry
- Stairs and Staircases

What can I do with a career in this field?

Graduates of this program can become rough or finish carpenters, estimators, surveyors, general contractors, architects, construction foremen, brick/block/stone masons, industrial engineers, carpenters, floor and tile installers, roofers, drywall and ceiling installers, building inspectors or an union apprentice.

CERTIFICATIONS

- Occupational Safety and Health Administration (OSHA) Construction Industry Safety and Health Certificate (10 hours)
- PA Skills Certificate
- Telehandler Operator
- American Ladder Institute
- Fall Protection Certificate
- Areal Work Platform Certification

Co-Op Eligible!

Upperclassmen may be hired at local companies to work during the school day, earning real-world experience and building their resumes.

The Academy Links College Credit Opportunities

- SOAR qualified program (CIP 46.9999)

SOAR: Students may qualify for several free credits at participating colleges across Pennsylvania, such as: Commonwealth Technical Institute, Community College of Allegheny County, Luzerne County Community College, and Orleans Technical Institute.

- Non-Traditional Occupation (Female)

THE ACADEMY

Eligible To:

- ☑ **Mifflin County Students**
- ☑ **Adult Certification Classes**

Cosmetology

PA DEPARTMENT OF LABOR IN– DEMAND OCCUPATION

The Cosmetology program capitalizes on looking good and always being in style. Students learn to be a cut above the rest in the beauty industry. With good attendance, students can earn the required hours for state licensing as a cosmetologist, nail technician, esthetician or natural hair braider. The fashion-driven cosmetology field offers many more opportunities for those who enjoy creativity and personal interaction with clients.

Learn all the latest techniques in the cosmetology field.

- Hair styling, cutting, coloring, permanent waving, relaxing and straightening
- Facials
- Manicures and Pedicures
- Personal Hygiene
- Sterilization
- Effective Communication Skills

What can I do with a career in this field?

Many cosmetologists begin their careers prior to licensing by working as spa and salon receptionists and shampoo assistants. You can also be a salon owner, cosmetologist, cosmetology teacher, chemical/texture specialist, esthetician, manicurist, makeup artist, nail technician or natural hair braider.

CERTIFICATIONS

- Pennsylvania State Board of Cosmetology License
- Nail Technician
- Esthetician
- Natural Hair Braider
- SP2 Safety
- Pennsylvania Skill Certificate

Clinic Hours

Students are provided opportunities to earn clinical hours that are applied to their 1250 hour requirement throughout the school year.

The Academy Links College Credit Opportunities

- Tech Prep 1:1 articulation program (CIP 12.0401)

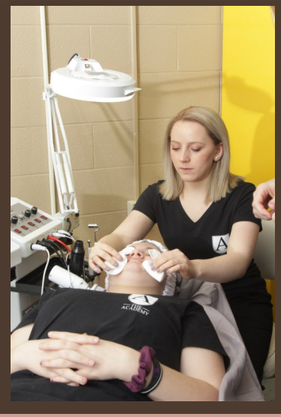
Students may qualify for several free credits at Penn Highlands Community College.

- Non-Traditional Occupation (Male)

THE ACADEMY

Eligible To:

- ☑ **Mifflin County Students**
- ☑ **Juniata County Students**
- ☑ **Adult Certification Classes**



PA DEPARTMENT OF LABOR IN– DEMAND OCCUPATION

Culinary Arts

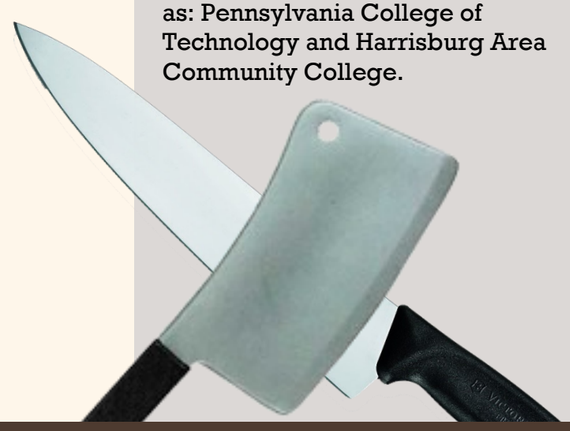
Employment in the food service/hospitality industry has been growing at the highest rate of any industry in the country. The expansion of restaurants, hotels, and cruise ships, along with the rapid growth in convenience foods and prepared foods, has resulted in Americans eating at least one daily meal away from home. Students will have the opportunity to apply skills learned in our newly renovated, Kudos Café, that is open to the public. Get in on the action with an exciting career program in Culinary Arts!

Learn the latest techniques in the culinary kitchen:

- Meat, fish, seafood and poultry preparation
- Vegetables and starches
- Knife skills
- Breakfast food preparation
- Sauce and soup preparation
- Food service management
- And much more!

What can I do with a career in this field?

Many of our students work in the field during high school and continue after graduation as executive chefs, kitchen managers, food scientists, caterers, nutritionists, pastry chefs, personal chefs, line cooks, kitchen workers, wholesale, and even product research/development.



The Academy Links College Credit Opportunities

- SOAR qualified program (CIP 12.0508)

SOAR: Students may qualify for several free credits at participating colleges across Pennsylvania, such as: Pennsylvania College of Technology and Harrisburg Area Community College.

THE ACADEMY

Eligible To:

- ☑ **Mifflin County Students**
- ☑ **Juniata County Students**
- ☑ **Adult Certification Classes**

CERTIFICATIONS

- **ServSafe Certificate (National Restaurant Association)**
- **PA Skills Certificate**
- **SP2 Safety**
- **ProStart Levels I & II (National Restaurant Association)**

Co-Op Eligible!

Upperclassmen may be hired at local companies to work during the school day, earning real-world experience and building their resumes.

PA DEPARTMENT OF LABOR IN– DEMAND AND HIGH-PRIORITY OCCUPATION

Early Childhood Childcare

The early childhood course is designed to provide students with the opportunity to learn the principles of child development and education. Upon successful completion of the course, students will be able to enter the workforce in such occupations as child care worker, pre-school teaching assistant, or will be prepared to enter a post-secondary educational institution to earn an Associate or Bachelor's degree in childcare or education. Students upon graduation who successfully complete the requirements will obtain the Child Development Associate Credential; a national certification that is recognized by the industry. Included in the curriculum will be teaching in a SUMMIT sponsored Academy preschool program, planning activities for children. Also, internship and co-op opportunities will be provided for students at local Mifflin and Juniata early childhood programs.

What can I do with a career in this field?

Employment as an aide in a child care center, a nanny, or family child caregiver requires a high school diploma and two years experience working with children. Students in this program graduate with enough experience to become an assistant group supervisor—one step above an aide. With further college education, jobs include teachers, child care center directors, child care referral agents and licensing specialists.

CERTIFICATIONS

- Child Development Associate Credential
- PA Key Stars 101 &102
- Better Kid Care Health & Safety
- Child Abuse Training
- CPR/First Aid Certificate
- Pennsylvania Skills Certificate

Co-Op Eligible!

Upperclassmen may be hired at local companies to work during the school day, earning real-world experience and building their resumes.

The Academy Links College Credit Opportunities

- SOAR qualified program (CIP 19.0708)

SOAR: Students may qualify for several free credits at participating colleges across Pennsylvania, such as: Harrisburg Area Community College, Reading Area Community College, Lackawanna College, Harcum College, and Pennsylvania Highlands Community College.

- Non-Traditional Occupation (Male)

THE ACADEMY

Eligible To:

- ☑ **Mifflin County Students**
- ☑ **Juniata County Students**
- ☑ **Adult Certification Classes**

PA DEPARTMENT OF LABOR HIGH-PRIORITY & IN– DEMAND OCCUPATION

Electrical Installation

Power up your future in the Electrical Installation program! In addition to mastering residential, commercial and industrial wiring, the students themselves are wired for careers as construction and maintenance electricians. Through classroom theory, lab work and real-world, hands-on experiences, graduates of the program are prepared to continue their education at post-secondary institutions or seek entry-level employment in the electrical trades.

Experience enlightening instruction in the following areas:

- AC and DC Machines
- Blueprint Reading
- Residential and Commercial Wiring
- Conduit Bending
- Electrical Maintenance

What can I do with a career in this field?

You can be an electrical engineer, electrician, electrician's apprentice, power plant technician, lineman; installation, maintenance and repair technician or apprentice, or counter/rental clerk.

CERTIFICATIONS

- ♦ **Occupational Safety and Health Administration (OSHA) Construction Industry Safety and Health Certificate (10 hours)**
- ♦ **Pennsylvania Skills Certificate**
- ♦ **Telehandler Operator**
- ♦ **American Ladder Institute**
- ♦ **Areal Work Platform Certification**

Co-Op Eligible!

Upperclassmen may be hired at local companies to work during the school day, earning real-world experience and building their resumes.

The Academy Links College Credit Opportunities

- SOAR qualified program (CIP 46.0399)

SOAR: Students may qualify for several free credits at participating colleges across Pennsylvania, such as: Harrisburg Area Community College and Rosedale Technical College.

Dual Enrollment: Students in this program will have the opportunity to earn dual enrollment credits through Penn College Now program through Penn College of Technology by being concurrently enrolled in Penn College and The Academy.

- Non-Traditional Occupation (Female)

THE ACADEMY

Eligible To:

- ☑ **Mifflin County Students**
- ☑ **Juniata County Students**
- ☑ **Adult Certification Classes**

Mechatronics

This is an instructional program that prepares individuals to apply basic engineering principles and technical skills in both the mechanical and electrical fields. Instruction is planned to provide preparation in the design, development and testing of electromechanical devices and systems such as automatic control systems, servomechanisms, vending machines, elevator controls, missile controls, tape control machines and auxiliary computer equipment. Instruction also includes feasibility testing of engineering concepts, systems analysis including designs, selection, testing, and application of engineering data; and, the preparation of written reports and test results in support of mechanical and electrical engineers.

Control your knowledge in these areas:

- Basic Electricity & Electrical Systems
- Electronics
- A.C. and D.C. Motors
- Programmable Logic Controls
- Robotics
- Fluid Power Systems

What can I do in this field?

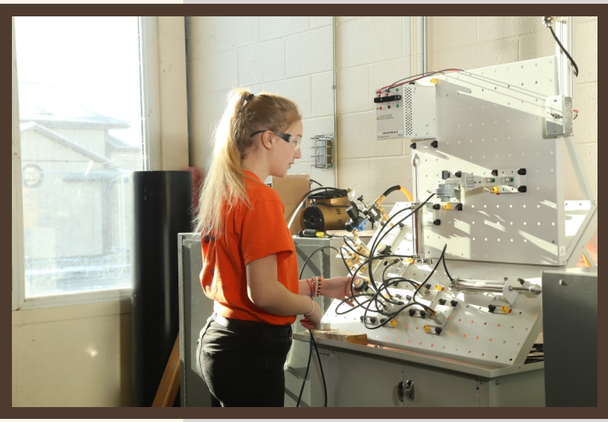
You'll be able to land an entry-level job wherever there is automation. Those kinds of jobs include robot installation and maintenance, automation equipment installation, troubleshooting and maintenance and PLC programming. You'll know how to install, maintain and repair the mechanical, controls, fluid power systems, electrical and electronic equipment found in a bunch of different of fields. Plus, your mechatronics training will equip you to make sure HVAC, mechanical, electrical and computer-driven systems run.

CERTIFICATIONS

- **PA Skills Certificate**
- **Occupational Safety and Health Administration (OSHA) Construction Industry Safety and Health Certificate (10 hours)**

Co-Op Eligible!

Upperclassmen may be hired at local companies to work during the school day, earning real-world experience and building their resumes.



The Academy Links College Credit Opportunities

- SOAR qualified program (CIP 15.0403)

SOAR: Students may qualify for several free credits at participating schools , including: Clarion University, Harrisburg Area Community College, and Northampton County Area Community College.

Dual Enrollment: Students in this program will have the opportunity in the future to earn dual enrollment credits through Penn College Now program through Penn College of Technology. Duel enrollment for this program will be offered in the future.

THE ACADEMY

Eligible To:

- ☑ **Mifflin County Students**
- ☑ **Juniata County Students**

Medical Science

Acquire the skills to be a valuable member of any health care team in the Medical Science program. According to the Bureau of Labor and Statistics, more workers are hired in the health care industry than in any other industry, and the trend is expected to continue. The Academy's Medical Science program is the best prescription for those considering a career in the medical field.

Gain a healthy understanding of:

- CPR and First Aid
- Basic patient bedside care
- Body Mechanics
- Infection Control
- Medical Terminology
- Patient Rights—HIPPA
- Vital Signs

What can I do with a career in this field?

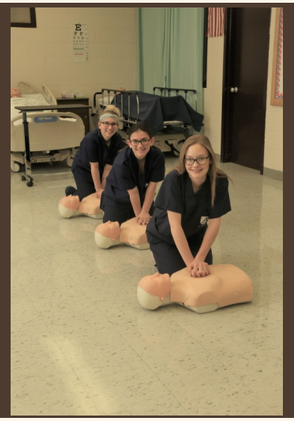
Many graduates continue their education to pursue careers in nursing, sports medicine, physical therapy (PT), and radiology. You can become a physician's assistant, physical therapist, occupational therapist (OT), laboratory technician, x-ray technician, medical records coder, registered nurse (RN) or licensed practical nurse (LPN).

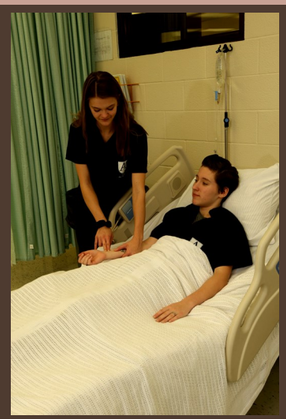
CERTIFICATIONS

- Certified Nursing Assistant (CNA) Certificate
- SP2 Safety
- CPR/First-Aid Certificate
- Pennsylvania Skills Certificate

Co-Op Eligible!

Upperclassmen may be hired at local companies to work during the school day, earning real-world experience and building their resumes.





The Academy Links College Credit Opportunities

- SOAR qualified program (CIP 51.9999)

SOAR: Students may qualify for several free credits at participating colleges across Pennsylvania, such as: Mount Aloysius College, Commonwealth Technical Institute, Harcum College, and Pennsylvania College of Technology.

Dual Enrollment: Students in this program will have the opportunity to earn dual enrollment credits through Penn College by being concurrently enrolled in Penn College and The Academy.

THE ACADEMY

Eligible To:

- ☑ **Mifflin County Students**
- ☑ **Adult Certification Classes**

PA DEPARTMENT OF LABOR IN-DEMAND AND HIGH-PRIORITY OCCUPATION

Precision Machining

Machinists are the foundation of all industries, and without them, no manufacturing or construction jobs would exist. In the Precision Machining program, you get training in the top 3 hardest jobs to fill According to the Bureau of Labor Statistics (Machining, Welding, CNC Programming). Precision Machining students are highly sought out by local employers for their knowledge and varied skillset.

Learn the latest advances in the precision machining field:

- Operating Lathes
- Operating Milling Machines
- Operating Power Saws
- Bench layout
- Welding
- Metallurgy
- Blueprint Reading
- CNC Programming

What can I do with a career in this field?

Graduates of the Precision Machining program go straight into the workforce or get further schooling. Students can become machinists, tool and die makers, CNC programmers, production managers, cost estimators, engineers, aircraft technicians, inspectors, or engineering technicians just to name a few!

CERTIFICATIONS

- **National Institute of Metalworking (NIMS) Level I Credentials**
- **Occupational Safety and Health Administration (OSHA) Construction Industry Safety and Health Certificate (10 hours)**
- **PA Skills Certificate**

Co-Op Eligible!

Upperclassmen may be hired at local companies to work during the school day, earning real-world experience and building their resumes.

The Academy Links College Credit Opportunities

- SOAR qualified program (CIP 48.0501)

SOAR: Students may qualify for several free credits at participating colleges across Pennsylvania, such as: Clarion University, Thaddeus Stevens College of Technology, Pennsylvania College of Technology, Harrisburg Area Community College and Reading

Dual Enrollment: Students in this program will have the opportunity to earn dual enrollment credits through Penn College by being concurrently enrolled in Penn College and The Academy.

THE ACADEMY

Eligible To:

- ☑ **Mifflin County Students**
- ☑ **Juniata County Students**
- ☑ **Adult Certification Classes**

- Non-Traditional Occupation (Female)

SOAR Credits

STUDENTS OCCUPATIONALLY AND ACADEMICALLY READY

AT A GLANCE:

COST

Free
(No Tuition or Fees!)

REQUIREMENTS

- Enroll in a SOAR approved Academy Program
- Schedule college-prep academic classes at your high school
- Maintain a 2.5 GPA in your Academy program
- Achieve your High School Diploma
- Earn a *Competent* or *Advanced* score on your NOCTI exam
- Complete 100% of your technical program competencies list at an Industry Proficient Level

PORTABLE

Credits transfer to over 40 different institutions in Pennsylvania

The Pennsylvania Department of Education (PDE) developed and supports the SOAR program, which helps career and technical education programs lead seamlessly to post-secondary education.

The mission of SOAR is to prepare students for college and careers in an increasingly diverse, high-performing workforce. PDE grants SOAR Programs of Study (POS) approval based in part on the adoption of statewide, industry-aligned competencies and the PA academic standards, instructor certifications, and status as High Priority Occupations as defined by the Pennsylvania Department of Labor and Industry. SOAR creates a transfer credit relationship between The Academy and over 40 Pennsylvania post-secondary colleges. Students who achieve SOAR's challenging academic technical criteria (listed to the left) by the time they graduate from The Academy can earn free credits to transfer to college, saving close to one full, free semester of college!

Note: Since requirements include test scores and GPAs, students will not know for certain if they qualify for SOAR credits until late in their senior year. Therefore, SOAR credits should be considered a bonus credit that you may earn if you work hard and achieve, not a guaranteed credit that every student will receive.

Perfect for:

- The academically strong, motivated student.
- The student who knows they want to go to college locally or in-state (in Pennsylvania), even if they haven't chosen a school yet.

What is a Non-Traditional Career?

Nontraditional Careers refers to jobs that have been traditionally filled by one gender. Nontraditional occupations are occupations for which Individuals from one gender comprise less than 25% of the individuals employed. Examples are males in Cosmetology and Early Childhood Childcare and females in Precision Machining and Agriculture. Promoting nontraditional career opportunities opens doors for every individual. It breaks the mold of expectations and allows all learners to explore a wide range of career opportunities in an atmosphere free from stereotypes of gender and jobs. Women are more often the focus of nontraditional programs because the opportunity to earn higher wages exists in occupations that are commonly nontraditional for women. Although occupations that are commonly nontraditional for men often do not yield higher wages, they may provide increased job satisfaction and may yield a higher wage for them than their female counterparts working in the same career.

PA DEPARTMENT OF LABOR
HIGH-PRIORITY & IN-DEMAND OCCUPATIONS

High-Priority & In-Demand Occupations are designated by the Department of Labor because they are in high demand and require a high skill level. As a result, graduates of these programs are likely to secure a job faster and earn higher-than-average wages. High-Priority & In– Demand Occupations are updated each year.

Admissions Policy

Admission into the Mifflin County Academy of Science and Technology does not guarantee admission for the student every year thereafter. From time to time, classroom quotas may limit the number of students who are able to return to the program the following year. In the event a program's quota (number of students that can be safely educated at one time) has been met in subsequent years, the student's prior year attendance and grades at The Academy will be the determining factor of who is and who is not re-enrolled in that program.

Application Process

Completed applications are submitted to each sending school counselor. Completed applications are then forwarded by the sending school counselor to The Academy by the May 1st application deadline.

The Academy evaluates the student applicant in terms of his/her preferred Academy course by utilizing the following criteria:

1. Attendance
2. Grade Point Average
3. Recommended Courses
4. Essay response on The Academy application

The Academy's Principal recommends placement of all students. If a program's quota has been met, students may be asked to enroll in their second choice program.

Student Attendance

Students must maintain an excellent attendance record in order to develop the skills, knowledge, attitude and behavior necessary to succeed in high school, post-secondary education and employment. Class attendance is a student's obligation and responsibility. Students who abuse the attendance policy could be denied credit for their course of study, and may also be denied the opportunity to continue in their Academy program the following school year.

The Mifflin County Academy of Science and Technology

2021-2022 10th Grade Student Application

Student Data (completed by student—please print legibly)

Student Name_____ Current Grade_____

Social Security Number _____ - _____ - _____ Date of Birth_____

Address_____
(street) (city) (state) (zip)

Telephone Number (_____) _____ Alternate Number (_____) _____

High School _____ Gender _____

Parent/Guardian Name _____

Automotive Mechanics

Construction Trades

Collision Repair

Culinary Arts

Early Childhood Childcare

Electrical Installation

Medical Science

Mechatronics

Precision Machining

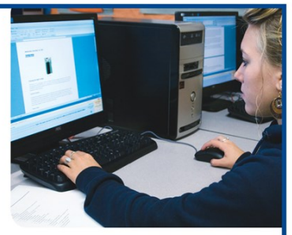
Please list the program you wish to take at The Academy to prepare you for a career in that field. Also, list a second choice in the instance that the program you have chosen has already filled its allotment of empty seats.

First Choice_____ **Second Choice** _____

Essay—Please answer the following question on another piece of paper and attach it to your application.

I am interested in enrolling in the _____program because…

PENN COLLEGE NOW



Penn College NOW provides the opportunity for high school students in grade 11 & 12 who attend The Academy to earn **free** Penn College credits.

Courses are taught during the school day at The Academy by our teachers.

Students must meet qualifications! Please see Norma O'Brien for more information.

THE ACADEMY

Penn College NOW credits will appear on a Penn College transcript and may be applied toward specific Penn College degrees. The extent to which a course will transfer to another college or university is at the discretion of that college or university.

Accredited by the National Alliance of Concurrent Enrollment Partnerships

Automotive

AMT112: Brake Systems
Fundamentals of brake hydraulics, including theory and operation of servo and non-servo drum brakes, disc and drum brake machining, operation of disc brakes, operation of power assist brakes, and overview of electronic anti-skid brakes.
3 Credits (2 Lecture - 3 Lab)
Enrollment requirement: 75% (C) minimum overall GPA.

AMT113: Steering and Suspension
Principles of operation of steering and suspension, rack and pinion steering gears, and conventional steering gears. Study includes the theory of operation of power steering gears, steering geometry, wheel alignment principles, and static and dynamic wheel balancing. 3 Credits (2 Lecture - 3 Lab)
Enrollment requirement: 75% (C) minimum overall GPA.

Collision Repair

ABC100: Introduction to Non-Structural Collision Repair
Analysis of basic principles and industry best practices, including issues of human and environmental safety. Theory/overview of removing, repairing, replacing, and adjusting outer body panels; straightening and roughing out of damaged steel panels and preparing them for body filler; and repairing aluminum panels. Study of proper replacement of corrosion protection to the repaired panels and adjustment of panels for proper fit. Introductory theory of cutting and welding of steel. Group interaction/activities; application of assessment tools. 2 Credits (2 Lecture)
Corequisite(s): ABC104 (waiver not available)
Enrollment requirement: 75% (C) minimum overall GPA.

ABC104: Introduction to Non-Structural Collision Repair Applications
Application of theory, techniques, principles, and industry best practices, including issues of human and environmental safety. Applied skills include removing, repairing, replacing, and adjusting outer body panels; straightening and roughing out damaged steel panels and preparing them for body filler; repairing aluminum panels for proper replacement of corrosion protection; and adjusting panels for proper fit. Group interaction/activities; application of assessment tools.
3 Credits (0 Lecture – 9 Lab)
Corequisite(s): ABC100 (waiver not available)
Enrollment requirement: 75% (C) minimum overall GPA.

Electrical Technology

ELT116: Construction Lab I: Residential I
Introduction to residential wiring, plans, specifications, and codes. Theory and lab assignments covering procedures for wiring basic lighting and receptacle circuits, installing special purpose circuits and switching circuits, and producing accurate wiring diagrams. Blueprint reading and the understanding and utilization of the National Electrical Code (NEC) are strongly emphasized in the course. 5 Credits (3 Lecture - 6 Lab)
Corequisite(s): ELT111 or RET111 (waiver available)
Enrollment requirement: 75% (C) minimum overall GPA.

Medical Terminology

MTR100: Medical Terminology Survey
Introduction to the basic structures and rules of interpreting medical terminology, designed to develop the ability to read, understand, and write the medical language. 1 Credit (1 Lecture)
Enrollment requirement: 75% (C) minimum overall GPA.

MTR104: Basics of Medical Terminology
Foundation for the use of the language of medicine, with emphasis on correct pronunciation and spelling, various word parts, abbreviations and symbols, and terms pertaining to body systems. Etiology, symptomatology, pathology, and diagnostic procedures for identifying various disease processes provide an increased understanding of medically related conditions and procedures. 3 Credits (3 Lecture)
Enrollment requirement: 75% (C) minimum overall GPA.

Horticulture

HRT101: Introduction to Ornamental Horticulture
Overview of the diverse ornamental horticulture industry, including the worldwide scope and economic impact of the industry in today's marketplace. Emphasis on information access through the Internet, trade journals, trade organizations, the horticulture industry, guest speakers, and visitations to various horticultural businesses. Exploration includes products, services, and information used in the industry; production and marketing (wholesale and retail) of horticultural products and services; and traditional and nontraditional career paths within the industry. 1 Credit (1 Lecture)
Enrollment requirement: 75% (C) minimum overall GPA.

Machinist General & Machine Tool Technology

MTT128: Mill Applications
Introduction to the theory and practical applications of basic metalworking. Emphasis on mill applications, industrial shop safety, material selection, job planning, bench-work, quality control, and inspection. (*Manual*) Milling machines, hand tools, drill presses, pedestal grinders, band saws, and precision-measuring equipment are used to complete required projects. 4 Credits (1 Lecture - 9 Lab)
Enrollment requirement: 75% (C) minimum overall GPA.

MTT129: Lathe Applications
Introduction to the theory and practical applications used to safely set up and operate a metal turning engine lathe. Operations such as turning, facing, boring, grooving, drilling, turning tapers, single-point threading, and performing cut-off procedures are implemented. Three and four-jaw chucking techniques and turning between centers are used to complete required projects. 4 Credits (1 Lecture - 9 Lab)
Enrollment requirement: 75% (C) minimum overall GPA.

PENN COLLEGE® NOW

LIFE-CHANGING OPPORTUNITIES.

Local. Affordable. In-Demand

The Academy is the Juniata River Valley's largest post-secondary school, offering a variety of adult and post-secondary courses for those looking for a start or to switch careers. Career and technical education provides multiple options for career success. The Academy offers employers a way to close the skills gap and offers community members an opportunity to change their lives.

Full Time Programs

- Practical Nursing
- Nurse Aide
- CDL - Class A
- AWS Certified Welding

Part Time Programs

- CDL - Class B
- PA Safety Inspections
- PA Emissions/OBD II
- Basic Welding
- Basic Machining
- CNC Machining
- ServSafe Manager
- Emergency Medical Responder
- Emergency Medical Technician
- Child Development Associate
- Mechatronics

Intergenerational Programs

- Cosmetology
- Cosmetology Teacher
- Nail Technician
- Mechatronics

Online Programs

Over 144 different on-line course in 12 categories.

See our website for current listings.

THEACADEMY.NET

THE ACADEMY

For more information on enrollment and course offerings call the school 717-248-3933 or go on-line at

THEACADEMY.NET

The Mifflin County Academy of Science and Technology

THE ACADEMY

www.theacademy.net

The Academy does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. Inquiries may be directed to The Academy's Title IX or the Section 504 Coordinator, Dan Potutschnig, at 700 Pitt Street, Lewistown, PA 17044 or 717-248-3933.

APPLY TODAY! Contact your School Counselor or contact the Principal, Norma O'Brien, for more information. Email njo05@mcsdk12.org or call 717-248-3933.

Students attending non-public schools in Mifflin and Juniata Counties are also eligible to attend The Academy. Enrollment averages about 350 students annually. Vocational-technical educational programs offered at the The Academy are approved by the Pennsylvania Department of Education. Students receive academic credit from their sending high schools for successful completion of each planned course at The Academy. This assists students in completing the requirements for graduation as determined by their high school. Upon successful completion of all planned courses in a specific technical program, students also receive a program completion certificate from The Academy.