"Careers Start Here"

Lycoming career
and technology center

Course Descriptions
2026-2027

PROGRAM OFFERINGS

Automotive Technology

Construction Technology

Culinary Arts

Computer Systems Technology

Criminal Justice

Diesel Technology

Early Childhood Education

Pre-Nursing & Health Sciences

Welding Technology

SPECIAL PROGRAMS

Cooperative Education

Earning College Credits

AUTOMOTIVE TECHNOLOGY – CIP 47.0604 - (2.0 hours/day)

If you are interested in cars and want to repair high tech vehicles, take a closer look at the Auto Tech program. This program, designed for students who would like to work in the automotive service industry, is certified by Automotive Service Excellence (ASE.) The LycoCTC Automotive Technology Program follows the National Automotive Technicians Education Foundation (NATEF) guidelines. When you enroll in the program, you will learn about performance, computer electronics, engine and chassis diagnoses and repair. Through this program students may acquire a Pennsylvania Automotive State Inspection License, prepare for the Automotive Service Excellence (ASE) Certification, and complete SNAP-ON DVOM Training.

> 9 College Credits currently available through Luzerne County Community College Articulation Agreement
> * See page 4 for more information about all the ways to earn college credits at Lyco CTC

COMPUTER SYSTEMS TECHNOLOGY – CIP 15.1202 - (2.0 hours/day)

As a CST student you'll dive deep into the fascinating realms of computer hardware, network technology, cybersecurity, and programming. You'll get your hands dirty building and repairing computers, setting up and securing networks, writing code, and protecting digital landscapes. But that's not all! We're not just teaching tech; we're empowering you for the future. This program offers you the opportunity to earn valuable CompTIA certifications like A+, Network+, Security+, and IT Fundamentals. These certifications will open doors to a wide range of career opportunities in IT. So, let's embark on this incredible learning adventure together, where we'll equip you with the skills and knowledge needed to thrive in the dynamic tech world. Get ready to shape your future in technology with us!

> 7 College credits are currently available through Penn College Dual Enrollment
> * See page 4 for more information about all the ways to earn college credits at Lyco CTC

CONSTRUCTION TECHNOLOGY – CIP 46.9999 - (2.0 hours/day)

This program provides students the opportunity to learn skills in the construction field such as: carpentry, masonry, electricity, plumbing, heating, and air conditioning. Students learn safety practices as they relate to using hand tools, power tools and performing tasks in the construction industry.

> 9 College credits currently available though Thaddeus Stevens College of Technology Articulation Agreement
> 3 College credits are currently available through Penn College Dual Enrollment
> * See page 4 for more information about all the ways to earn college credits at Lyco CTC

CRIMINAL JUSTICE – CIP 43.0107 - (2.0 hours/day)

The Criminal Justice program is available to high school students who are interested in law enforcement, corrections or the military. Through a combination of academic-based instruction and "hands-on" experience, students will acquire the basic skills needed to succeed in a related career field. Some of the areas studied include the criminal justice system, use of force, communication and report writing, patrol functions, crimes code and vehicle code, crime scene investigation, and physical education. The Criminal Justice program helps to prepare you for a career in private security, law enforcement, corrections, military, or to continue your post-high school education.

> 15 College credits currently available through Commonwealth University Articulation Agreement
> 12 College credits currently available through Penn College Articulation Agreement
> * See page 4 for more information about all the ways to earn college credits at Lyco CTC

CULINARY ARTS – CIP 12.0508 - (2.0 hours/day)

Did you ever wonder what it would be like being a chef working in a 5-star restaurant? What about being an executive chef working for a Food Service Corporation? Our program prepares you for higher education and gets you ready to attain your goals you have set for yourself. Our instructor will give you a jump-start on your career goals and help you receive your ServSafe certification.

> 10 College credits currently available through Luzerne County Community College Articulation Agreement
> * See page 4 for more information about all the ways to earn college credits at Lyco CTC

DIESEL TECHNOLOGY – CIP 47.0613 - (2.0 hours/day)

If you are interested in diesel engines and want to work on powerful, high-torque vehicles, explore the Diesel Technology program. This program is designed for students who want to pursue careers in the diesel service and repair industry and is aligned with industry standards to ensure quality training. The Diesel Technology program follows guidelines set by the National Institute for Automotive Service Excellence (ASE). When you join this program, you will gain hands-on experience with diesel engine performance, fuel systems, electronic controls, diagnostics, and heavy-duty vehicle repair.

EARLY CHILDHOOD EDUCATION – CIP 19.0708 - (2.0 hours/day)

This program prepares students for careers and further study in early childhood education by teaching child development from conception to adolescence. Students will also learn the practical skills needed to work in licensed child-care settings. Coursework covers planning and guiding developmentally appropriate activities, guidance and discipline practices, basic health and safety, management and operation of childcare facilities, employability skills, and child behavior. Students will gain hands-on experience through observation and participation in an actual on-site preschool. This course provides a solid base for students planning to enter the fields of Occupational Child Care, Para-educator, or Elementary Education. *This program is located at the Ashkar Elementary School in Hughesville.*

> 6 College credits currently available through Commonwealth University Articulation Agreement
> 9 College credits currently available though Luzerne County Community College Articulation Agreement
> * See page 4 for more information about all the ways to earn college credits at Lyco CTC

PRE-NURSING & HEALTH SCIENCES – CIP 51.0899 - (2.0 hours/day)

Pre-Nursing & Health Sciences introduces students to the scientific principles and practical skills that form the basis of healthcare and nursing practice. Students will explore human anatomy and physiology, medical terminology, and basic health assessments through hands-on labs and clinical simulations. Emphasis is placed on developing critical thinking, communication, and teamwork skills essential for success in healthcare professions.

Students gain exposure to real-world healthcare environments through classroom experiences and optional cooperative education placements during the senior year. This course prepares students for postsecondary study in nursing and allied health fields and offers dual enrollment credit and articulation credits through partner colleges.

> 7 College credits currently available through Commonwealth University Articulation Agreement
> 3 College credits currently available through Penn College Articulation Agreement
> 3 College credits currently available through Penn College Dual Enrollment
> * See page 4 for more information about all the ways to earn college credits at Lyco CTC

WELDING TECHNOLOGY – CIP 48.0508 - (2.0 hours/day)

If you are interested in working with metal and creating strong, precise welds, consider the Welding Technology program. This program is designed for students who want to build careers in welding, fabrication, and metalworking industries. It follows industry standards to provide comprehensive, hands-on training. When you enroll in the program, you will learn

various welding processes, blueprint reading, metallurgy, and safety practices. Students will gain experience with advanced welding equipment and techniques, preparing them for industry certifications such as those offered by the American Welding Society (AWS).

SPECIAL PROGRAMS

CAPSTONE COOPERATIVE EDUCATION
This opportunity allows eligible seniors to get on the job training at a co-op or internship placement directly related to their program of study at Lycoming CTC. Students must have their program instructor's recommendation to participate in this program.

* EARNING COLLEGE CREDIT IN HIGH SCHOOL
Career and Technical Education (CTE) students have several ways to get a head start on a college certificate or degree while still in high school. They can earn credit for the courses and skills they complete in their LycoCTC programs, which saves both time and money. These opportunities are listed with our programs, and more general information is below.

> **Dual Enrollment** means taking a real college class while you're at LycoCTC. You earn both high school and college credit at the same time, at no cost to you. LycoCTC partners with Pennsylvania College of Technology for dual enrollment. Students earn credits on a Penn College transcript, and these credits sometimes transfer to other colleges.

> **Articulation** means that LycoCTC and a particular college have an agreement, so that the college gives you credit when you complete a particular program of study at LycoCTC. Articulation is noted under each program description and is only between the listed college and LycoCTC (not transferrable to another college).

> **SOAR (Students Occupationally and Academically Ready)** is a statewide program in Pennsylvania that connects LycoCTC programs to partner colleges who opt in. SOAR credits recognize the skills you learn at LycoCTC and translate them into credits at participating colleges in PA, which gives you a head start toward your degree or certificate.

**The Lycoming Career and Technology Center does not discriminate
on the basis of race, color, national origin, sex, disability or age in its programs or activities.**

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