Lake Cumberland Regional College and Workforce Center

Career Pathways

2024-25

HEALTH SCIENCES

Allied Health
Complete (4)

Required Courses

- Principles of Health Science
- Emergency Procedures* **AND** Medical Terminology I*
- Allied Health Core Skills
- Body Structures & Functions

Pre-Nursing
Complete (4)

Required Courses

- Principles of Health Science
- Emergency Procedures* **AND** Medical Terminology I*
- Medicaid Nurse Aid (**Application Required)**
- Body Structures and Functions OR Co-Op (Prior Approval Required)

Phlebotomy Technician
Complete (4)

Required Courses

- Principles of Health Science
- Emergency Procedures* **AND** Medical Terminology I*
- Medical Laboratory Aide (**Application Required)**
- Body Structures & Functions

CARPENTRY

Residential Carpenter Assistant
Complete (4)

Required Courses

- Intro to Construction Technology
- Floor & Wall Framing
- Ceiling & Roof Framing
- Ext. & Int. Finishing OR Construction Prints AND Ind. Safety
- Co-Op

.

Commercial Carpentry TRACK – Pre-Apprenticeship
Complete (4)

Required Courses

- Intro to Construction Technology
- Floor & Wall Framing
- Ceiling & Roof Framing
- Site Layout& Foundations

ELECTRICITY

Industrial Electrician Assistant
Complete (4)

Required Courses

- Electrical Construction I
- Circuits I
- Electrical Motor Controls
- Rotating Machinery
- Co-Op

Construction Electrical TRACK – Pre-Apprenticeship
Complete (4)

Required Courses

- Electrical Construction I
- Electrical Construction II
- Circuits I
- Circuits II **OR** Electrical Motor Controls

INDUSTRIAL MAINTENANCE

Maintenance Mechanic

Required Courses

- Industrial Maintenance Electrical Principles
- Maintaining Industrial Equipment

PLUS (2) CREDITS from the following:

- Industrial Maintenance Electrical Motor Controls
- Fluid Power
- Industrial Maintenance of PLCs
- Basic Blueprint Reading*/Basic Troubleshooting*
- Robotics and Automation
- Advanced Hydraulics Systems
- Advanced Pneumatics Systems
- HVAC Electricity
- Electrical Components
- Introduction to 3D Printing Technology
- Welding for Maintenance

Electrical Technician

Required Courses

- Industrial Maintenance Electrical Principles
- Industrial Maintenance Electrical Motor Controls
- Industrial Maintenance of PLCs

PLUS (1) CREDITS from the following:

- Fluid Power
- Basic Blueprint Reading*/Basic Troubleshooting*
- Maintaining Industrial Equipment
- Welding for Maintenance
- Robotics & Automation
- Introduction to 3D Printing Technology

WELDING

Welder – Entry Level
Complete (4)

- Blueprint Reading for Welding
- Oxy-Fuel System **OR** Cutting Processes
- Shielded Metal Arc Welding (SMAW)
- Gas Metal Arc Welding (GMAW)
- GMAW Groove Lab
- SMAW Groove
- SMAW Open Groove
- CO-OP I

COMPUTERIZED MANUFACTURING AND MACHINING

Machinist Operator

Required Courses

- Fundamentals of Machine Tools A
- Fundamentals of Machine Tool B

PLUS (2) CREDITS from the following:

- Blueprint Reading for Machinists
- Applied Machining I
- Applied Machining II
- Manual Programming
- Intro to Computer Aided Drafting
- Intro to 3D Printing Technology
- Co-Op

.

Computer Numerical Control Operator (CNC) Operator
Complete (4)

- Fundamentals of Machine Tool A
- Fundamentals of Machine Tool B
- Manual Programming
- CAD/CAM/CNC
- Blueprint Reading for Machinists
- Intro to Computer Aided Drafting
- Intermediate Computer Aided Drafting
- Introduction to Conversational Programming
- Advanced Dimensioning and Measurement
- Intro to 3D Printing Technology
- Co-Op

AUTOMOTIVE

Automotive Maintenance & Light Repair Technician

Required Courses

Automotive Maintenance Section A
Automotive Maintenance Section B
Automotive Maintenance Section C
Automotive Maintenance Section D

Diesel/Medium-Heavy Truck Technology and Minor Repair Technician

Required Courses

Diesel Medium Heavy Duty Truck Inspection, Maintenance, and Minor Repair A
Diesel Medium Heavy Duty Truck Inspection, Maintenance, and Minor Repair B
Diesel Medium Heavy Duty Truck Inspection, Maintenance, and Minor Repair C
Diesel Medium Heavy Duty Truck Inspection, Maintenance, and Minor Repair D