



# INDUSTRIAL TECHNOLOGY ACADEMY

## **PATHWAYS**

### CONSTRUCTION

**CAREERS**  
Carpenter,  
Estimator, Project  
Planner, Plumber,  
Electrician, HVAC  
Technician

### DRAFTING & ENGINEERING TECHNOLOGY

**CAREERS**  
Drafter, Designer,  
Engineering  
Technician

### WELDING

**CAREERS**  
Welder, Pipe-  
fitter, Welding  
Inspector, Welding  
Technician

### AUTOMOTIVE

**CAREERS**  
Mechanic, Collision  
Repair Specialist,  
Diesel Mechanic,  
Small Engine  
Repair

### MANUFACTURING

**CAREERS**  
Machinist, Tool &  
Die Maker, CNC  
Operator, Quality  
Engineer, Machine  
Operator

### INDUSTRIAL MAINTENANCE

**CAREERS**  
Building Engineer,  
HVAC Technician,  
Automated  
Manufacturing  
Repair Technician

GRADE  
**9**

EXPLORATION

FOUNDATIONS  
OF WOOD  
1 CREDIT

MECHANICAL  
DRAFTING  
1 CREDIT

GENERAL METALS  
1 CREDIT

GRADE  
**10**

PREPARATION

ADVANCED  
WOODS  
1 CREDIT

MECHANICAL  
DRAFTING  
OR  
ARCHITECTURAL  
DRAFTING  
1 CREDIT

ADVANCED METALS  
2 CREDITS  
OR COMPUTER INTEGRATED MANUFACTURING (CIM)  
2 CREDITS

ADVANCED  
METALS  
2 CREDITS

GRADE  
**11**

IMMERSION

CONSTRUCTION  
TRADES I  
4 CREDITS

MACHINE  
DRAFTING  
1 CREDIT

INDUSTRIAL  
WELDING I  
@HCC  
4 CREDITS

AUTOMOTIVE  
TECHNOLOGY I  
OR AUTOMOTIVE  
COLLISION I  
OR DIESEL  
MECHANICS I  
@HCC  
4 CREDITS

MACHINE  
TECHNOLOGY I  
4 CREDITS

INDUSTRIAL  
ENGINEERING I  
@HCC  
4 CREDITS

UNMANNED FLIGHT & SAFETY OPERATION  
2 CREDITS

UNMANNED FLIGHT & SAFETY OPERATION  
2 CREDITS

GRADE  
**12**

APPLICATION

CONSTRUCTION  
TRADES II  
4 CREDITS

ENGINEERING  
GRAPHICS  
1 CREDIT

INDUSTRIAL  
WELDING II  
@HCC  
4 CREDITS

AUTOMOTIVE  
TECHNOLOGY II  
OR AUTOMOTIVE  
COLLISION II  
OR DIESEL  
MECHANICS II  
@HCC  
4 CREDITS

MACHINE  
TECHNOLOGY II  
4 CREDITS

INDUSTRIAL  
ENGINEERING II  
@HCC  
4 CREDITS

IRC

CARPENTER'S  
UNION  
OSHA 10

AUTODESK  
& ADAA

AMERICAN  
WELDING SOCIETY

ICAR OR ASE

NIMS  
OSHA 10

EPA SECTION  
608 UNIVERSAL  
CERTIFICATION

Courses with a bold outline indicate dual credit opportunities.

Note: Most colleges require that students take a minimum of two courses in a foreign language.

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