

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

COMPUTER INTEGRATED MACHINING & MANUFACTURING

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

AUTOMOTIVE

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

MANUFACTURING

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

INDUSTRIAL TECHNOLOGY

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

GENERAL METALS
1 CREDIT

GRADE 10

PREPARATION

ADVANCED WOODS
1 CREDIT

MECHANICAL DRAFTING
OR
ARCHITECTURAL DRAFTING
1 CREDIT

ADVANCED METALS
2 CREDITS
OR CIM
1 CREDIT

ADVANCED METALS
2 CREDITS

GRADE 11

IMMERSION

CONSTRUCTION TRADES I
4 CREDITS

MACHINE DRAFTING
1 CREDIT
OR ENGINEERING
TECHNOLOGY @
MCC-BTC
4 CREDITS

INDUSTRIAL WELDING I
@ HCC
4 CREDITS

COMPUTER INTEGRATED
MACHINING &
MANUFACTURING I
@ MCC-BTC
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
OR ENGINEERING
TECHNOLOGY @
MCC-BTC
4 CREDITS

INDUSTRIAL WELDING II
@ HCC
4 CREDITS

COMPUTER INTEGRATED
MACHINING &
MANUFACTURING II
@ MCC-BTC
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 IRC

IRC IN
AUTODESK
& ADAA OR
DUAL CREDIT
@ MCC-BTC

AWS IRC

DUAL CREDIT
@ MCC-BTC

IRC IN
ICAR OR ASE

DUAL CREDIT-
MCC
NIMS IRC

EPA SECTION
608
UNIVERSAL
CERTIFICATION

Based upon workforce development data and college entrance requirements, it is strongly recommended that students participating in these pathways take a minimum of two courses in a foreign language. Courses with a bold outline indicate dual credit opportunities.