ASSOCIATE IN APPLIED SCIENCE (AAS) DEGREE

DESCRIPTION: This program meets industry standards for this skilled trade, preparing students to work in an industrial setting with installation and maintenance of hydraulics, pneumatic equipment, power trains, belts, gears, and chains. The program also includes course work in industrial electrical maintenance to allow for cross-training as a millwright/electrical maintenance technician. Students will also earn basic and advanced millwright certification upon successful completion of the program. The Apprentice (APP) courses for this program of study are offered primarily at night on a two-year rotating basis.

GENERAL EDUCATION REQUIREMENTS  CREDITS: 18
ENG 111 or  English Composition I (3/3) or
ENG 120  Applied Communication (3/3)
ENG 112 or  English Composition II (3/3) or
ENG 123  Technical Communication (3/3)
PLS 221 or  American Government & Politics (3/3) or
PLS 222  State & Local Government (3/3)
SPE 123  Public Communication (3/3)
Computer Elective (3/4)
General Elective (3/3)

CORE PROGRAM REQUIREMENTS  CREDITS: 34.5-35.5
APP 100E  Electrical Studies for Trades (3/4)
APP 102E  Residential Wiring & Blueprint Rdg (3/4)
APP 103E  Commercial & Industrial Wiring (3/4)
APP 106M  Industrial Safety (1/1)
APP 121M or  Apprentice Blueprint Reading (3/4) A or
MFG 120  Print Interpretation & Processes (3/4)
APP 122 M  Machine Repair (3/4) A
APP 124M  Apprentice Hydraulics (3/4) A
APP 125M or  Apprentice Machine Shop (3/4) A or
MFG 101  Machining Processes I (4/6) A
APP 128M  Rigging & Weight Estimating (1.5/2) A
APP 129M  Apprentice Pneumatics (1.5/2) A
APP 223M  Predictive & Preventative Maint (3/4) A
MTH 110  Technical Math I (3/4)
WLD 123 or  SMAW Welding Processes (4/6) or
WLD 124  GMAW & FCAW Welding (4/6)

SUGGESTED ELECTIVES  CREDITS: 9-17
APP 111E  Electric Motor Control (3/4)
APP 114E  Programmable Controllers (3/4)
APP 290M  Millwright Internship (3/3)
MFG 102  Machining Processes II (6/10)
MFG 201  Intro to Computer Numerical Control (6/10) B
ADDITIONAL WLD OR MET COURSES (3-5/4-8)

MINIMUM 61.5 CREDIT HOURS/75.5 CONTACT HOURS

NOTES:
A Offered on a two-year rotating basis based upon demand, meet with your advisor
B Course can be used as Computer Elective