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 four-year rotating basis.

GENERAL EDUCATION REQUIREMENTS  CREDITS: 15
ENG 120 or  APPLIED COMMUNICATION (3/3) or
ENG 111  ENGLISH COMPOSITION I (3/3)
ENG 123 or  TECHNICAL COMMUNICATION (3/3) or
ENG 112  ENGLISH COMPOSITION II (3/3)
MTH 110  TECHNICAL MATH I (3/4)
PLS 221 or  AMERICAN GOVERNMENT & POLITICS (3/3) or
PLS 222  STATE & LOCAL GOVERNMENT (3/3)
SPE 123  PUBLIC COMMUNICATION (3/3)

CORE PROGRAM REQUIREMENTS  CREDITS: 32
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) or
MFG 120  PRINT INTERPRETATION & PROCESSES (3/4)
APP 122M  MACHINE REPAIR (3/4) A
APP 124M  APPRENTICE HYDRAULICS (3/4) A
APP 125M or  APPRENTICE MACHINE SHOP (3/4) or
MFG 101  MACHINING PROCESSES I (4/6)
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
WLD 123 or  SMAW WELDING PROCESSES (4/6) or
WLD 124  GMAW & FCAW WELDING (4/6)

SUGGESTED ELECTIVES  CREDITS: 14
APP 111E  ELECTRIC MOTOR CONTROL (3/4)
APP 114E  PROGRAMMABLE CONTROLLERS (3/4)
APP 210M  METAL FORMING & SHEETMETAL (3/4)
APP 220M  MECHATRONIC SYST INTEGRATION & REP (3/4)
APP 290M  MILLWRIGHT INTERNSHIP (4/4)
CIS  COMPUTER INFO SYSTEMS ELECTIVE (3/4)
MFG 102  MACHINING PROCESSES II (6/10)
MFG 201  CNC I (6/10) B

MINIMUM 61.0 CREDIT HOURS/77.0 CONTACT HOURS

NOTES:
A Offered on a four-year rotating basis based upon demand
B Course can be used as Computer Elective