MILLWRIGHT

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 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 122 M	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)
	GENERAL ELECTIVE (3/3)
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