UTILITY TECHNOLOGY
ASSOCIATE IN APPLIED SCIENCE (AAS) DEGREE

DESCRIPTION: This Associate Degree program familiarizes students with utility industry tools, construction techniques, electrical theory, and equipment. Graduates meet the utility industry's need for trained, entry-level employees. It is the only Associate Degree program offered in Michigan designed specifically to prepare men and women to install and repair business and residential electrical, telephone, and CATV transmission systems.

GENERAL EDUCATION REQUIREMENTS  CREDITS: 15
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)
MTH 110 or TECHNICAL MATH I (3/4) or
MTH 115 APPLIED ALGEBRA & TRIGONOMETRY I (5/6)
PLS 221 or AMERICAN GOVERNMENT REQUIREMENT (3/3)
PLS 222 or PLS 222 or HST 221 & HST 222
SPE 123 or PUBLIC COMMUNICATION (3/3) or
SPE 121 SPEECH COMMUNICATION (3/3)

CORE PROGRAM REQUIREMENTS  CREDITS: 46.5
APP 100E ELECTRICAL STUDIES FOR TRADES (3/4) A
APP 104E AC/DC FUNDAMENTALS (3/4) A
APP 107E SPECIALTY WIRING (3/4) A
APP 106M INDUSTRIAL SAFETY (1/1) A
EPT 230 POLY-PHASE METERING (2/3) A
PEH 263 WORKPLACE FIRST AID/CPR/AED (1/1)
IND 120 or INDUSTRIAL COMPUTERS & NETWORKING (3/4) or
CIS 120 INTRODUCTION TO MICROCOMPUTERS (3/4)
SDE 201 JOB SEARCH STRATEGIES (1/1)
UTT 101 INTRODUCTION TO THE UTILITY INDUSTRY (.5/.5) A
UTT 110 LINE MECHANICS LAB I (6/10.5)
UTT 111 LINE WORKER PHYSICAL FITNESS I (2/3)
UTT 202 TRANSFORMER FUNDAMENTALS (2/3) A
UTT 203 UNDERGROUND CONSTRUCTION (2/2) A
UTT 204 SYSTEM DESIGN & OPERATIONS (4/4) A
UTT 206 EQUIPMENT/VEHICLE OPERATIONS (2/3) A
UTT 208 CLIMBING & WORKING IN ELEVATED WORK SITES (2/2) A
UTT 210 UTILITY/LINE MECHANIC LAB (5/9) A
UTT 211 LINE WORKER PHYSICAL FITNESS II (2/3)

MINIMUM 61.5 CREDIT HOURS/80 CONTACT HOURS

NOTES:
A Included in occupational specialty.
GPA of 2.0 or higher must be maintained in occupational specialty courses

Students must be able to climb 40 foot power poles to successfully complete the first semester. Each student is expected to have: hard hat, lineman belt, safety strap and climbers, rain wear, safety glasses, various hand tools required by the trade, and work shoes for an approximate cost of $1,800.

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SUGGESTED SEQUENCE OF COURSES

YEAR 1 (FALL SEMESTER)  CREDITS: 15
APP 100E ELECTRICAL STUDIES FOR TRADES (3/4)
IND 120 or INDUSTRIAL COMPUTERS & NETWORKING (3/4) or
CIS 120 INTRODUCTION TO MICROCOMPUTERS (3/4)
ENG 111 or ENGLISH COMPOSITION I (3/3) or
ENG 120 APPLIED COMMUNICATION (3/3)
MTH 110 or TECHNICAL MATH I (3/4) or
MTH 115 APPLIED ALGEBRA & TRIGONOMETRY I (5/6)
PLS 221 or AMERICAN GOVERNMENT REQUIREMENT (3/3)
PLS 222 or PLS 222 or HST 221 & HST 222
SPE 123 or PUBLIC COMMUNICATION (3/3) or
SPE 121 SPEECH COMMUNICATION (3/3)

YEAR 1 (SPRING SEMESTER)  CREDITS: 12
APP 104E AC/DC FUNDAMENTALS (3/4)
ENG 112 or ENGLISH COMPOSITION II (3/3) or
ENG 123 TECHNICAL COMMUNICATION (3/3)
PLS 221 or AMERICAN GOVERNMENT REQUIREMENT (3-6/3-6)
PLS 222 or HST 221 & HST 222
EPT 230 POLY-PHASE METERING (2/3)
PEH 263 WORKPLACE FIRST AID/CPR/AED (1/1)

YEAR 2 (FALL SEMESTER)  CREDITS: 16.5
APP 106M INDUSTRIAL SAFETY (1/1)
APP 107E SPECIALTY WIRING (3/4)
UTT 101 INTRODUCTION TO THE UTILITY INDUSTRY (.5/.5)
UTT 102 CLIMBING ELEVATED WORK SITES (1/1)
UTT 103 OVERHEAD CONSTRUCTION (1/1)
UTT 110 LINE MECHANICS LAB I (6/10.5)
UTT 111 LINE WORKER PHYSICAL FITNESS I (2/3)
UTT 203 UNDERGROUND CONSTRUCTION (2/2)

YEAR 2 (SPRING SEMESTER)  CREDITS: 18
UTT 202 TRANSFORMER FUNDAMENTALS (2/3)
UTT 204 SYSTEM DESIGN & OPERATIONS (4/4)
UTT 206 EQUIPMENT/VEHICLE OPERATIONS (2/3)
UTT 208 CLIMBING & WORKING IN ELEVATED WORK SITES (2/2)
UTT 210 UTILITY/LINE MECHANIC LAB (5/9)
UTT 211 LINE WORKER PHYSICAL FITNESS II (2/3)
SDE 201 JOB SEARCH STRATEGIES (1/1)