

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 ENG 120	ENGLISH COMPOSITION I (3/3) or APPLIED COMMUNICATION (3/3)
ENG 112 or ENG 123	ENGLISH COMPOSITION II (3/3) or TECHNICAL COMMUNICATION (3/3)
MTH 110 or MTH 115	TECHNICAL MATH I (3/4) or APPLIED ALGEBRA & TRIGONOMETRY I (5/6)
PLS 221 or PLS 222 or HST 221 & HST 222	AMERICAN GOVERNMENT REQUIREMENT (3/3)
SPE 123 or SPE 121	PUBLIC COMMUNICATION (3/3) or 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 CIS 120	INDUSTRIAL COMPUTERS & NETWORKING (3/4) or INTRODUCTION TO MICROCOMPUTERS (3/4)
SDE 201	JOB SEARCH STRATEGIES (1/1)
UTT 101	INTRODUCTION TO THE UTILITY INDUSTRY (.5/.5) ^A
UTT 102	CLIMBING ELEVATED WORK SITES (1/1) ^A
UTT 103	OVERHEAD CONSTRUCTION (1/1) ^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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ASSOCIATE IN APPLIED SCIENCE (AAS) DEGREE SUGGESTED SEQUENCE OF COURSES

YEAR 1 (FALL SEMESTER) CREDITS: 15	
APP 100E	ELECTRICAL STUDIES FOR TRADES (3/4)
IND 120 or CIS 120	INDUSTRIAL COMPUTERS & NETWORKING (3/4) or INTRODUCTION TO MICROCOMPUTERS (3/4)
ENG 111 or ENG 120	ENGLISH COMPOSITION I (3/3) or APPLIED COMMUNICATION (3/3)
MTH 110 or MTH 115	TECHNICAL MATH I (3/4) or APPLIED ALGEBRA & TRIGONOMETRY I (5/6)
SPE 123 or SPE 121	PUBLIC COMMUNICATION (3/3) or SPEECH COMMUNICATION (3/3)
YEAR 1 (SPRING SEMESTER) CREDITS: 12	
APP 104E	AC/DC FUNDAMENTALS (3/4)
ENG 112 or ENG 123	ENGLISH COMPOSITION II (3/3) or TECHNICAL COMMUNICATION (3/3)
PLS 221 or PLS 222 or HST 221 & HST 222	AMERICAN GOVERNMENT REQUIREMENT (3-6/3-6)
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)