

Program Courses

Possible Prerequisites:		Hours
ENG	0033 Writing Tutorial (required if ACT 0-18)	.NC
MATH	0013 College Math (required if Math ACT below 17)	.NC
READ	0023 Developmental Reading (required if Reading ACT below 19)	.NC
UNIV	1001 Freshman Seminar	.1

CORE CURRICULUM

General Education Requirements: (15 hours)

English (6 hours)

ENG	1003 Freshman English I	.3
ENG	1013 Freshman English II	.3

Math and Computer Science (6 hours)

MATH	1003 Intermediate Algebra (required if Math ACT below 19) OR	
MATH	1023 College Algebra	.3
MIS	1033 Introduction to Computers OR	
MIS	1443 Technical Computer Applications OR	
MIS	1503 Microcomputer Applications	.3

Social Science (3 hours)

PSY	1013 Human Relations OR	
PSY	2013 Introduction to Psychology	.3

Support Area Curriculum (24 hours)

DTI	1107 Commercial Driver Training	.7
HVLT	1001 Introduction to Utilities	.1
HVLT	1102 Introduction to Climbing & Groundman Procedures	.2
HVLT	1203 Electrical Safety	.3
HVLT	1401 Heavy Construction Equipment	.1
HVLT	1403 DC and AC Circuit Analysis	.3
HVLT	1504 Overhead Distribution Systems & Pole Framing	.4
HVLT	1701 Introduction to Transformers	.1
HVLT	1703 Principles of Operation of High Voltage Distribution Systems	.3
HVLT	1801 Underground Distribution	.1
HVLT	1904 Electrical Capstone Experience I	.4

Major Technical Discipline (25 hours)

HVLT	2103 Introduction to Power Plants	.3
HVLT	2203 Advanced Transformers	.3
HVLT	2253 Transmissions & Substations	.3
HVLT	2604 Electrical Capstone Experience II	.4

Elective Hours (6)

*Technical Math and/or Technical Composition can be used as electives if they were previously taken.

Minimum Required Hours (64)

Register online at www.asun.edu



**7648 Victory Blvd.
Newport, AR 72112
1-870-512-7800
1-800-976-1676
www.asun.edu**



"A Great Place to Start!"

**Associate
of
Applied Science
in
General Technology
Emphasis in High
Voltage Lineman**



**Electric Cooperatives
of Arkansas**

Associate of Applied Science (Emphasis High Voltage Lineman Technology)

Arkansas State University-Newport (ASUN) and Electric Cooperatives of Arkansas are excited to extend to individuals an opportunity to obtain an Associate of Applied Science in General Technology (Emphasis in High Voltage Lineman Technology)! Once admitted, students should take full advantage of this unique opportunity to learn and pursue an outstanding career.

Electric cooperatives have been serving Arkansans since 1938 when First Electric Cooperative Corp. in Jacksonville first turned on power to its distribution system. In the years since that landmark occasion, other electric distribution cooperatives have been formed in Arkansas, bringing the statewide total to 17. Today, cooperative service areas cover more than 60 percent of the land area in Arkansas and include about 440,000 customers, or members.



This is an industry specific degree available through Arkansas State University-Newport. It enables Arkansas State University Newport the ability to provide students a program of study that will fulfill a unique career goal.

Schedule of Courses

Fall Semester

HVLT 2103 Introduction to Power Plants

Spring Semester

HVLT 2203 Advanced Transformers

HVLT 2253 Transmissions & Substations

Summer Semester

HVLT 2604 Electrical Capstone Experience II

*Note: the following courses must be completed before this degree can be completed.

*ENG 1003 Freshman English I

*ENG 1013 Freshman English II

*MATH 1003 Intermediate Algebra

Associate of Applied Science in General Technology (64 Hours)

Area Curriculum (30 Hours)

- DTI 1107 Commercial Driver Training
- HVLT 1001 Introduction to Utilities
- HVLT 1102 Introduction to Climbing & Groundman Procedures
- HVLT 1203 Electrical Safety
- HVLT 1401 Heavy Construction Equipment
- HVLT 1403 DC and AC Circuit Analysis
- HVLT 1504 Overhead Distribution Systems & Pole Framing
- HVLT 1701 Introduction to Transformers
- HVLT 1703 Principles of Operation of High Voltage Distribution Systems
- HVLT 1801 Underground Distribution
- HVLT 1904 Electrical Capstone Experience I

General Education Core (15 Hours)

- MATH 1023 College Algebra **OR**
- MATH 1003 Intermediate Algebra (if ACT below 19)
- ENG 1003 Freshman English I
- ENG 1013 Freshman English II

- PSY* 1013 Human Relations **OR**
- PSY* 2013 Introduction to Psychology
- MIS* 1443 Technical Computer Applications **OR**
- MIS* 1033 Introduction to Computers **OR**
- MIS* 1503 Microcomputer Applications
- * (completed during Certificate program or through work experience evaluation. May be used as electives)

Major Technical Discipline (19 Hours)

- HVLT 2103 Introduction to Power Plants
- HVLT 2203 Advanced Transformers
- HVLT 2253 Transmissions & Substations
- HVLT 2604 Electrical Capstone Experience II
- Electives (6 hours)

Course Descriptions

- **HVLT 2103 Introduction to Power Plants** – This course will instruct student in planning, development, maintenance, operations, ecological and environmental considerations of electric power plants. There will also be instruction in power plant safety.

- **HVLT 2203 Advanced Transformers** – This course gives student a fundamental understanding of transformers and transformer banking. Includes a three-phase connections, transformer fusing and loading, transformer vectoring, transformer installation, and safety.
- **HVLT 2253 Substations & Transmissions** – This course will give students a fundamental understanding of electrical substations and transmission lines. This will include substation construction, maintenance, control systems, and safety. Transmission part will include construction, maintenance, and safety.
- **HVLT 2604 Electrical Capstone II** – This course is an employment experience relating to the electrical utilities. An instructor will monitor the student's progress with supervising employer.