# IBEW/NECA Electrical Trades Apprenticeship Pathway to a Technical Associate Degree

Revised September 28, 2010

College: **Northwest State Community College**

The IBEW/NECA Electrical Trades Apprenticeship program is a nationally recognized program. This agreement applies to the Inside Wireman specialty path—see [http://www.njate.org/training/a apprenticeship/index.aspx](http://www.njate.org/training/a apprenticeship/index.aspx) for more information.

## I. Electrical Trades Curriculum 30 Semester Hours

The IBEW/NECA curriculum fulfills the 30 semester hour Technical requirement of a Technical Associate Degree.

- RTI156 – Construction Electricity II (4 semester hours)
- RTI182 – Maintenance Electricity (3 semester hours)
- RTI188 – Fire Alarms (2 semester hours)
- RTI191 – Electronic Principles & Applications (3 semester hours)
- RTI194 – Industrial Electricity II (3 semester hours)
- RTI214 – Commercial Wiring/Print Reading (2 semester hours)
- RTI215 – National Electrical Code II (3 semester hours)
- RTI216 – National Electrical Code III (2 semester hours)
- RTI276 – Motors & Motor Controls (3 semester hours)
- RTI277 – Industrial Electronics (3 semester hours)
- RTI282 – Motor Control/System: Intermediate (2 semester hours)

## II. Non-Technical Curriculum 30 Semester Hours

Courses are to be from the following:

A. **General Education** – At least one 3 hour semester course in each area for a total minimum of 15 semester hours.

### Area I.

- English Composition/Oral Communication – 6 semester hours
  - ENG111 Composition I
  - ENG112 Composition II

### Area II.

- Mathematics – 3 semester hours
  - covered in Electrical Trades Curriculum (all institutions will accept the electrical trades curriculum as covering 3 semester hours)
  - does not carry the OTM transfer guarantee
  - MET103 Applied Geometry and Trigonometry

### Area III.

- Arts & Humanities – 3 semester hours (Choose one course)
  - ENG223 Interpretation of Literature
  - ENG230 Children’s Literature
  - ENG234 Narrative Lit. of the Old NW Territory
  - ENG240 Introduction to Poetry
  - ENG241 Introduction to Fiction
  - ENG250 American Lit. Through the Mid-19th Century
  - ENG251 American Lit. Since the Mid-19th Century
  - ENG260 British Lit. Through the 13th Century
  - HUM209 Hum. & Culture: Ancient & Medieval
  - HUM210 Hum. & Culture: Renaissance to Present
  - HUM221 Music Appreciation
  - HUM230 Art Appreciation
  - PHI110 Critical Thinking & Logic
  - PHI201 Introduction to Philosophy
  - PHI210 Ethics
  - PHI220 Ethics in Health Care
| **Area IV.** | **Social Sciences** | - 3 semester hours (Choose one course) |
| | | **ENG261 British Lit. Since the 18th Century** |
| | | **ENG271 Non-Western Literature** |
| | | **PSY230 Human Growth & Development** |
| | | **PSY240 Social Psychology** |
| | | **SSC101 Sociology** |
| | | **SSC102 Sociology Sustainable World** |
| | | **SSC110 General Anthropology** |
| | | **SSC120 American Government** |
| | | **SSC130 Comparative Government** |
| | | **SSC210 Cultural Diversity** |
| | | **SSC220 Interpersonal Violence** |

| **Area V.** | **Natural Sciences/Physics** | - 3 semester hours |
| | | - covered in Electrical Trades Curriculum (all institutions will accept the electrical trades curriculum as covering 3 semester hours of Natural Sciences/Physics) |
| | | - does not carry the OTM transfer guarantee |
| | | **PHY100 World of Science** |

Note: General Education courses can be taken before enrollment in Electrical Trades Curriculum, concurrently while in Electrical Trades Curriculum, or after Electrical Trades Curriculum is completed.

**B. Basic Education**

Courses basic to the technical field and closely related to the technical specialty.

- 100 or 200 level - Computer Course (3 semester hours)
- 100 or 200 level - Non-Technical Elective (BIO, BUS, CAO, CHM, CIS, ECO, ENG, GEO, GSD, HIS, HUM, MGT, MKT, MTH, PHI, PHY, PSY, SPN, SSC, OR STA) (2 semester hours)
- RTI131 - Industrial Safety (2 semester hours)
- RTI123 - Electrical Blueprint Reading (2 semester hours)
- RTI220 - Electrical Test Equipment (3 semester hours)

**Total of Degree Program: 60 Semester Hours (100%)**

If a student completes the general education requirements at a different institution from which the electrical trades curriculum was completed, the courses are to be transferred back to that institution to complete the Associate Degree. Note: Non-technical curriculum and technical curriculum are allowed to exceed the minimum 30 semester hours requirement. The maximum number of hours for an associate degree cannot exceed 73 semester hours of college level courses.

*Signature: [Signature]*

Chief Academic Officer