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

Revised July 10, 2012

College: Columbus 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.niace.org/training/apprenticeship/index.aspx](http://www.niace.org/training/apprenticeship/index.aspx) for more information.

## I. Electrical Trades Curriculum 31 Semester Hours

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

- **APPL1015 Electrical Foundations** - 3 cr.
- **APPL 1310 DC Theory (Comm. & Ind.)** - 3 cr.
- **APPL1610 Survey of Nat'l Electric Code** - 4 cr.
- **APPL1313 AC Theory (Comm. & Ind.)** - 3 cr.
- **APPL1410 AC Circuits & Wiring Methods** - 3 cr.
- **APPL2010 Inter. Grounding & Bonding** - 3 cr.
- **APPL 2050 Electronics Theory I** - 3 cr.
- **APPL2450 Fire Alarm Systems** - 1 cr.
- **APPL2210 Motor Control Systems I** - 4 cr.
- **APPL 1994 - SPL: Motor Theory & Oper.** - 2 cr.
- **APPL xxx Technical Electives** - 2 cr.

Technical Curriculum = 31 semester hrs.

## II. Non-Technical Curriculum 31 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.

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<tr>
<th>Area I.</th>
<th>English Composition/Oral Communication</th>
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<td>- 3 semester hours <strong>ENGL1100 English Composition I</strong> - 3 cr.</td>
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<tr>
<th>Area II.</th>
<th>Mathematics</th>
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<td>- 3 semester hours covered in Electrical Trades Curriculum (all institutions will accept the electrical trades curriculum as covering 3 semester hours) <strong>non-traditional credit granted for MATH1110 Math Skilled Trades</strong> - 3 cr.</td>
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- does not carry the OTM transfer guarantee

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<tr>
<th>Area III.</th>
<th>Arts &amp; Humanities</th>
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<td>- 3 semester hours <strong>ARTS / HISTORY</strong> elective - 3 cr.</td>
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<tr>
<th>Area IV.</th>
<th>Social Sciences</th>
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<td>- 3 semester hours <strong>SOCIAL / BEHAVIORAL SCIENCES</strong> elective - 3 cr.</td>
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<th>Area V.</th>
<th>Natural Sciences/Physics</th>
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<td>- 3 semester hours</td>
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- covered in Electrical Trades Curriculum (all institutions will accept the electrical trades curriculum as covering 3 semester hours of Natural Sciences/Physics) non-traditional credit granted for PHYS1103 World of Energy – 3 cr.
- does not carry the OTM transfer guarantee

General Education TOTAL = 15 semester hours

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.

ESSH 1160 OSHA 10 Hour Const. Safety – 1 cr.
CSCI 1101 Computer Concepts & Applications – 3 cr.
COMM 1105 or COMM 1110 – 3 cr.
CMGT 1121 Construction Drawings – 3 cr.
COMM 2204 Technical Writing – 3 cr.
ESSH 1700 OSHA 30 Hour Health & Safety – 2 cr.
SKTR 1894 SPL: NFPA 70e – 1 cr.

Basic Education TOTAL = 16 semester hours

Combined Gen. Ed. & Basic Ed. = 31 semester hrs.

Total of Degree Program: 62 Semester Hours (100%)  
Total Degree = 62 semester hrs.

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