# Electrical Technology (ELT)
Associate in Applied Science
M.A.P.

<table>
<thead>
<tr>
<th>Semester</th>
<th>Suggested Courses</th>
<th>Semester(s) Offered</th>
<th>Credit Hrs.</th>
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</thead>
<tbody>
<tr>
<td><strong>Semester 1</strong>&lt;br&gt;16 credit hours</td>
<td>ELT 100 or ILT 100 Applied Electronic Computation or Applied Electronic Computations</td>
<td>Fall, Spring*</td>
<td>3</td>
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<tr>
<td></td>
<td>ELT 111 or ILT 106 Concepts of Direct Current or Concepts of Direct Current</td>
<td>Fall, Spring*</td>
<td>5</td>
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<td></td>
<td>WKO 110 NCCER Core</td>
<td>Fall*</td>
<td>3</td>
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<tr>
<td></td>
<td>MTH 100 or MTH 116 Intermediate College Algebra or Mathematical Applications</td>
<td>Fall, Spring, Summer</td>
<td>3</td>
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<td></td>
<td>ORI 101 Orientation to College</td>
<td>Fall, Spring, Summer</td>
<td>2</td>
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<tr>
<td><strong>Semester 2</strong>&lt;br&gt;14 credit hours</td>
<td>ELT 112 or ILT 107 Concepts of Alternating Current or Concepts of Alternating Current</td>
<td>Spring*</td>
<td>5</td>
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<td></td>
<td>ELT 110 Wiring Methods</td>
<td>Spring*</td>
<td>3</td>
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<td></td>
<td>ELT 114 Residential Wiring Methods</td>
<td>Spring*</td>
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<td>ENG 101 English Composition I</td>
<td>Fall, Spring, Summer</td>
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<td><strong>Semester 3</strong>&lt;br&gt;9 credit hours</td>
<td>ELT 241 National Electric Code</td>
<td>Summer*</td>
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<td></td>
<td>ELT 118 Commercial/Industrial Wiring I</td>
<td>Summer*</td>
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<td>SPH 106 or SPH 107 Fundamentals of Oral Communication or Fundamentals of Public Speaking</td>
<td>Fall, Spring, Summer</td>
<td>3</td>
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<tr>
<td><strong>Semester 4</strong>&lt;br&gt;12-13 credit hours</td>
<td>ELT 117 or ILT 167 AC/DC Machines or AC/DC Machinery and Controls I</td>
<td>Fall, Spring*</td>
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<td>ELT 246 Advanced Electrical Raceways</td>
<td>Fall*</td>
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<td>ELT 209 or ILT 197 Motor Controls I or Motor Controls I</td>
<td>Summer*</td>
<td>3</td>
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<td>Area III Math or Natural Science Elective</td>
<td>Fall, Spring, Summer</td>
<td>3-4</td>
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<td><strong>Semester 5</strong>&lt;br&gt;15 credit hours</td>
<td>ELT 217 Transformers</td>
<td>Spring*</td>
<td>3</td>
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<td>ELT 242 Journeyman-Master Prep Exam</td>
<td>Spring*</td>
<td>3</td>
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<td>ELT 230 Programmable Controls</td>
<td>Spring*</td>
<td>6</td>
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<td>Area IV History or Social/Behavioral Science</td>
<td>Fall, Spring, Summer</td>
<td>3</td>
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<td><strong>Semester 6</strong>&lt;br&gt;8 credit hours</td>
<td>ILT 115 Advanced Industrial Controls</td>
<td>Spring, Summer*</td>
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<td>ILT 116 Advanced Industrial Controls Lab</td>
<td>Spring, Summer*</td>
<td>2</td>
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<td>Area II Fine Art or Humanities</td>
<td>Fall, Spring, Summer</td>
<td>3</td>
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**Total Hours**: 74-75

*Course(s) may be offered in additional semester but are only assured to run in semester(s) indicated. It is highly recommended for course(s) to be completed in the semester(s) indicated.

Part-time students and full-time students desiring to begin the ELT program of study during a spring or summer semester should consult with an academic advisor to establish an alternate degree completion pathway.
## Area II – Area IV Options

### Area II

**Humanities and Fine Arts**
- Art 100, Art Appreciation
- ART 203, Art History I
- ART 204, Art History II
- ENG 251, American Literature I
- ENG 252, American Literature II
- ENG 261, English Literature I
- ENG 262, English Literature II
- ENG 271, World Literature I
- ENG 272, World Literature I
- HUM 298, Directed Studies in Humanities
- MUS 101, Music Appreciation
- PHL 206, Ethics and Society
- REL 100, History of World Religions
- REL 151, Survey of Old Testament
- REL 152, Survey of New Testament
- SPA 101, Introduction to Spanish I
- SPA 102, Introduction to Spanish II
- THR 120, Theatre Appreciation

### Area III

**Math or Natural Science**
- AST 220, Introduction to Astronomy
- BIO 101 or Introduction to Biology I or BIO 103, Principles of Biology I
- BIO 102 or Introduction to Biology II or BIO 104, Principles of Biology II
- CHM 104 or Introduction to Inorganic Chemistry or CHM 111, College Chemistry I
- CHM 105 or Introduction to Organic Chemistry or CHM 112, College Chemistry II
- CHM 221, Organic Chemistry I
- CHM 222, Organic Chemistry II
- GEO 101, Principles of Physical Geography I
- GEO 102, Principles of Physical Geography II
- MTH 100, Intermediate College Algebra
- MTH 110, Finite Mathematics
- MTH 112, Precalculus Algebra
- MTH 113, Precalculus Trigonometry
- MTH 115, Precalculus Algebra & Trigonometry
- MTH 120, Calculus and Its Applications
- MTH 125, Calculus I
- MTH 126, Calculus II
- MTH 227, Calculus III
- MTH 237, Linear Algebra
- MTH 238, Applied Differential Equations I
- MTH 265, Elementary Statistics
- PHS 111, Physical Science I
- PHS 112, Physical Science II
- PHY 201, General Physics I - Trig Based
- PHY 202, General Physics II - Trig Based
- PHY 213, General Physics with Calculus I
- PHY 214, General Physics with Calculus II

### Area IV

**History, Social, and Behavioral Sciences**
- ANT 200, Introduction to Anthropology
- ANT 220, Cultural Anthropology
- ECO 231, Principles of Macroeconomics
- ECO 232, Principles of Microeconomics
- GEO 100, World Regional Geography
- HIS 101, Western Civilization I
- HIS 102, Western Civilization II
- HIS 201, United States History I
- HIS 202, United States History II
- POL 200, Introduction to Political Science
- POL 211, American National Government
- PSY 200, General Psychology
- PSY 210, Human Growth & Development
- SOC 200, Introduction to Sociology
- SOC 210, Social Problems

*Updated 8.17.2021*